Color TV

Directions for Use

Read this manual first!

Congratulations on purchasing this Philips product.
We've included everything you need to get started.
If you have any problems, Philips Representatives can help you get the most from your new product by explaining:

- *Hookups,*
- *First Time Setup, and*
- *Feature Operation.*

Do not attempt to return this product to the store.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!

Let's make things better.

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Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your **purchase,** and welcome to the **"family!"**

PHILIPS

REGISTRATION NEEDED WITHIN 10 DAYS PHILIPS Hurry! PHILIPS

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** symbols

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚠ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

⚠ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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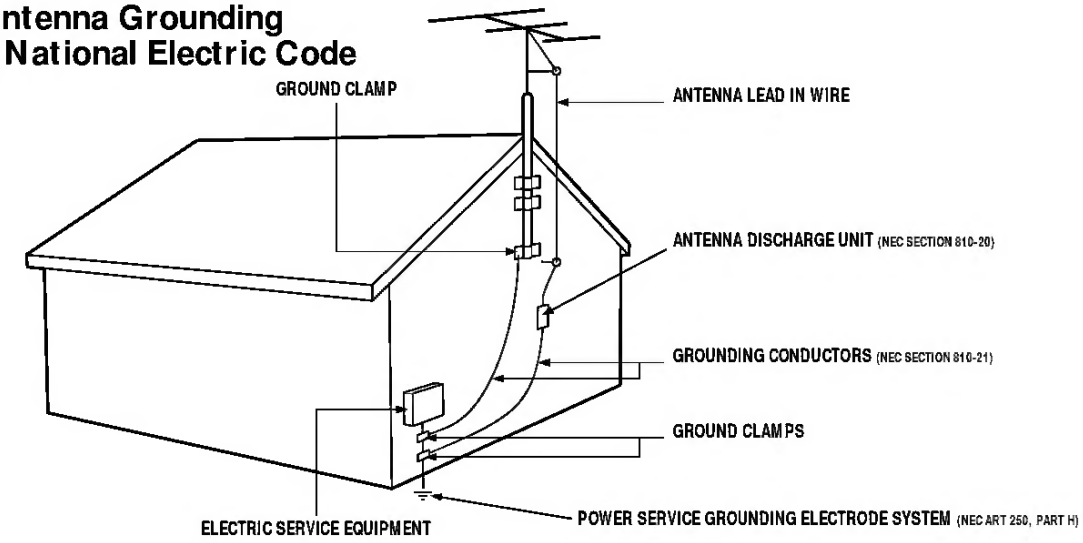
IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    - **A.** The power supply cord or the plug has been damaged; or
    - **B.** Objects have fallen, or liquid has been spilled into the appliance; or
    - **C.** The appliance has been exposed to rain; or
    - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - **E.** The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

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Here are a few of the features built into your new Television:

QuadraSurf™ A remote control feature that allows you to store and view up to ten of your favorite channels per button (4 buttons - 40 channels total). Can be set to hold movie, sports, news channels, etc., or add the audio/video channels for a quick source function to swap between your external accessory devices.

AutoLock™ feature allows you to block the viewing of certain channels or external audio/video connections where you might not want your children viewing inappropriate material.

Infrared Remote Control works your TV set, and allows you to program certain features with the press of one button.

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

On-screen Features (in either English or Spanish) show helpful messages for setting of TV controls.

Audio/Video Jackpanel located on the front of the television for direct connections with VCRs (Cameras, or DVD players) providing quality TV picture and sound playback.

On Timer automatically turns the TV ON at a preset time, and channel.

Sleeptimer automatically turns the TV OFF at preset times.

AutoPicture™ allows you to set the picture color, tint, contrast, etc. for various types of programming such as Sports, Movies, Personal, Weak Signals or Multi Media with the push of one button.

AutoSound™ controls allow you to set the sound controls for various types of listening programs such as Personal (sound controls the way you set them), Theater, Music, or Voice with the push of one button.

Treble Boost, Bass Boost, and Balance controls to enhance the television's sound.

NOTE: It is possible that this owner's manual may be used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

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BASIC CABLE TELEVISION CONNECTION

Your Cable TV input into your home may be a single (75 ohm) cable or a converter box installation. In either case, the connection to the TV is very easy. Follow the steps below to connect your cable signal to your new television.

If your cable signal comes directly from a round 75Ω coaxial cable use the following steps:

1. **Connect the open end of the round Cable Company supplied cable** to the 75Ω input on the TV. Screw it down finger tight.

2. **Plug the television in to the wall outlet** and turn the TV on. Refer to the AUTO-PROGRAM feature to program all the available channels on your cable signal.

If your cable signal comes from a cable box, use the following steps:

3. **Connect the open end of the round Cable Company supplied cable** to the cable signal IN(put) plug on the back of the Cable Box.

4. Using a separate round coaxial cable, **connect one end to the OUT(put) plug on the back of the Cable Box.**

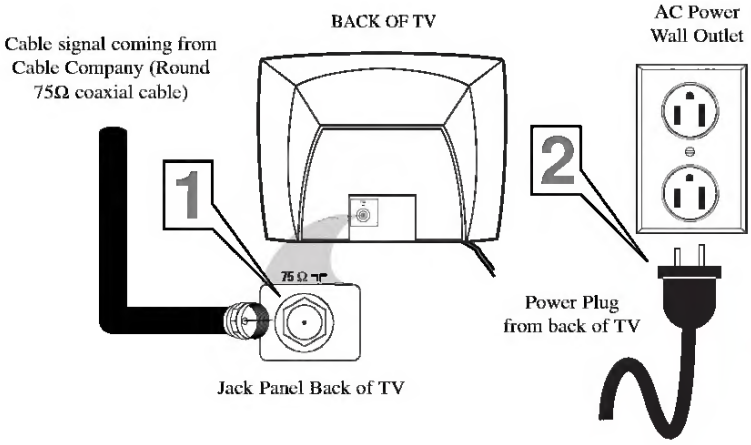
5. **Connect the other end of the round coaxial cable** to the 75Ω input on the back of the television. Screw it down finger tight.

6. **Plug the television in to the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 3 of this Quick Use Guide. TUNER should be set to the CABLE option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

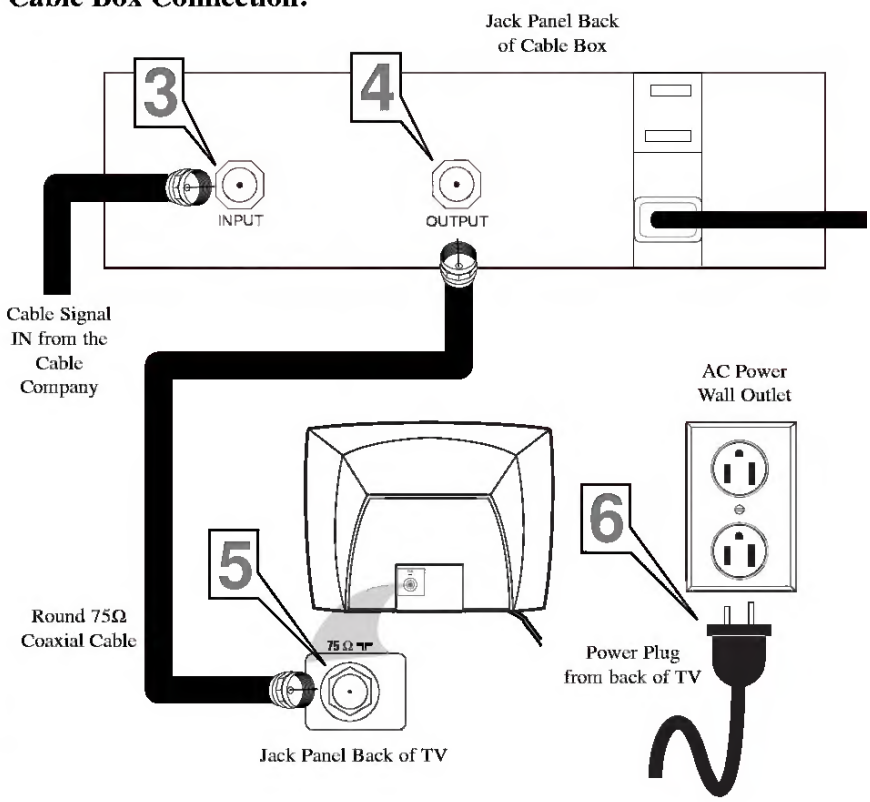
☑ CHECK IT OUT

After using the AutoProgram Control, press the CH + and – buttons to scroll through all the channels stored in the television's memory.

Direct Cable Connection:



Cable Box Connection:



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BASIC ANTENNA TELEVISION CONNECTION

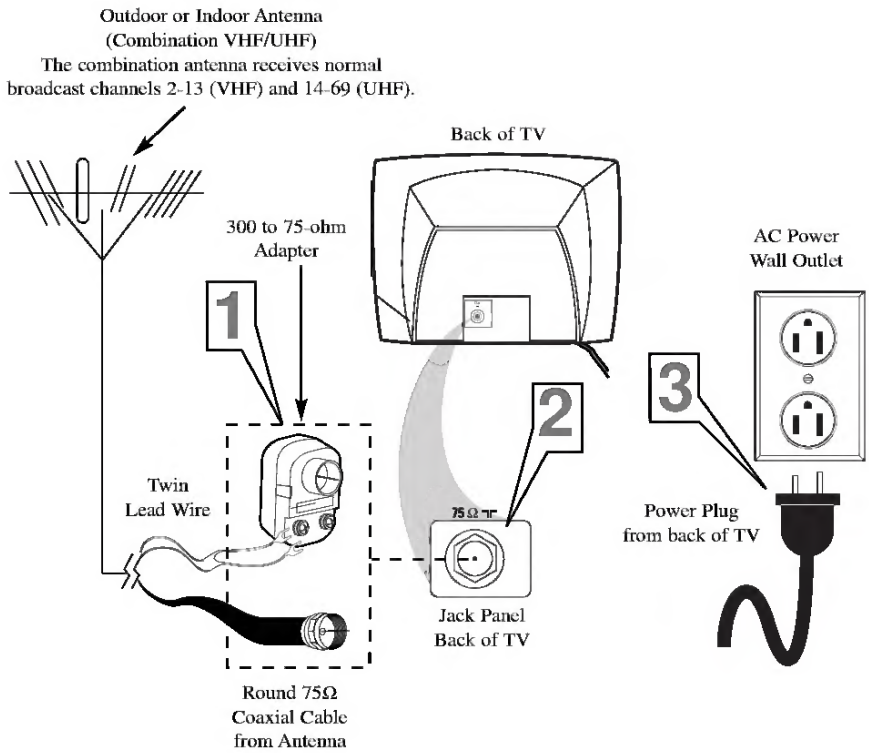
A combination antenna receives normal broadcast channels (VHF 2–13 and UHF 14–69). Your connection is easy because there is only one 75Ω (ohm) antenna plug on the back of your TV, and that's where the antenna goes.

1 **If your antenna has a round cable** (75 ohm) on the end, then you're ready to connect it to the TV.
If your antenna has flat, twin-lead wire (300 ohm), you first need to attach the antenna wires to the screws on a 300- to 75-ohm adapter.

2 **Push the round end** of the adapter (or antenna) onto the 75Ω (ohm) plug on the back of the TV. If the round end of the antenna wire is threaded, screw it down finger tight.

3 **Plug the television in to the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 3 of this Quick Use Guide. TUNER should be set to the ANTENNA option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Antenna Connection:



☑ CHECK IT OUT

After using the AutoProgram Control, press the CH + and – buttons to scroll through all the channels stored in the television's memory.

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BASIC VCR TO TELEVISION CONNECTION

The basic Antenna, or Cable TV, to VCR to TV connection is shown to the right. For more information on other hookups (possible when Cable Converter/Descrambler boxes are included) refer to your accessory VCR and Cable Converter Owner's Manual for details.

1 **Connect your Antenna or Cable TV signal to the IN FROM ANT(enna)** plug on the VCR.

2 **Connect the OUT TO TV plug on the VCR to the 75Ω** plug on the TV (connecting cable supplied with the VCR.)

3 **Set the VCR output to channel 3 or 4** using the channel switch on the back of the VCR.

4 **Turn the VCR and the TV ON** using the power button on each device.

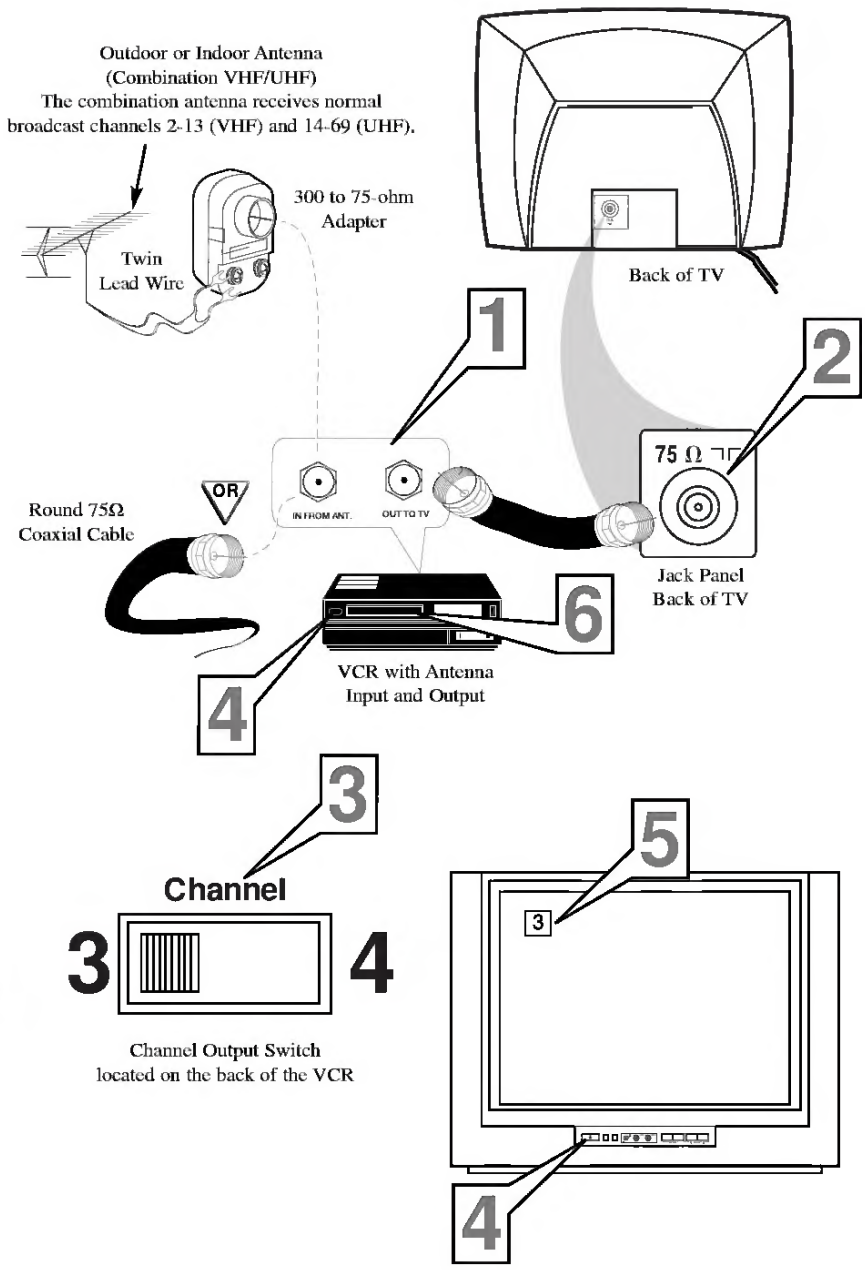
5 Depending on which channel you selected in step 3, **tune the television to that channel (3 or 4) using the CH + or – huttons** or the numbered buttons on the remote control.

6 **Your now ready to view a prerecorded tape from the VCR.** Or, view cable/antenna channels by changing the channels on the VCR.

HELPFUL HINT

When using this type of connection, be sure to set the CH 3/4 switch on the back of the VCR. Then when viewing a Prerecorded tape in the VCR, tune the television to the corresponding channel.

VCR to TV Connection:



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USING THE FRONT AUDIO/VIDEO INPUTS

Audio and Video Front Inputs are available for a quick connection of a VCR, to playback video from a camera or attach a gaming device. Use the AV button on the remote control to tune these inputs.

1 **Connect the video (yellow) cable** from the Video output on the Camera (or accessory device) to the Video (yellow) Input located on the FRONT of the TV.

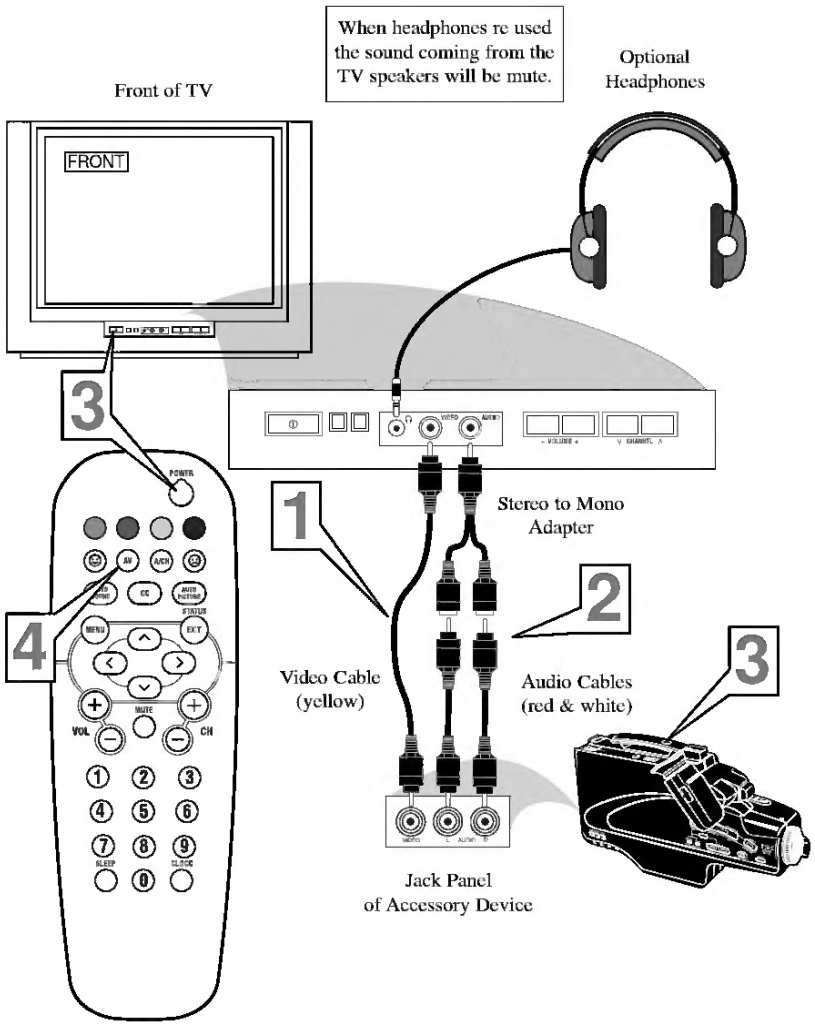
2 **For Stereo Devices:** Connect the audio cable (red and white) from the Audio Left and Right Outputs on the Camera to a Stereo to Mono adapter. Then plug the single end of the adapter to the Audio In (white) jack on the front of the television.

For Mono Devices: Connect one end of the audio cable from the Audio Out jack on the device to the Audio In (white) jack on the front of the television.

3 Turn the TV and the accessory device ON.

4 Tune to the "FRONT" channel **by pressing the AV button** on the remote control to view playback from the accessory device.

Front A/V Input Connection:



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Basic Television and Remote Control Operation

Television

1 **Press the POWER button** to turn the TV ON.
Note: You can also press any button on the front of the TV to turn the TV ON.

2 **Press the VOLUME + button** to increase the sound level, **or the VOLUME – button** to lower the sound level.

Pressing both buttons at the same time will display the on-screen menu. Once in the menu, use these button to make adjustments or selections.

3 **Press the CHANNEL UP ▲ or DOWN ▼** button to select TV channels.

Remote Control

4 **Point the remote** control toward the remote sensor window on the TV when operating the TV with the remote.

Battery Installation

5 **Remove the battery compartment lid** on the back of the remote.

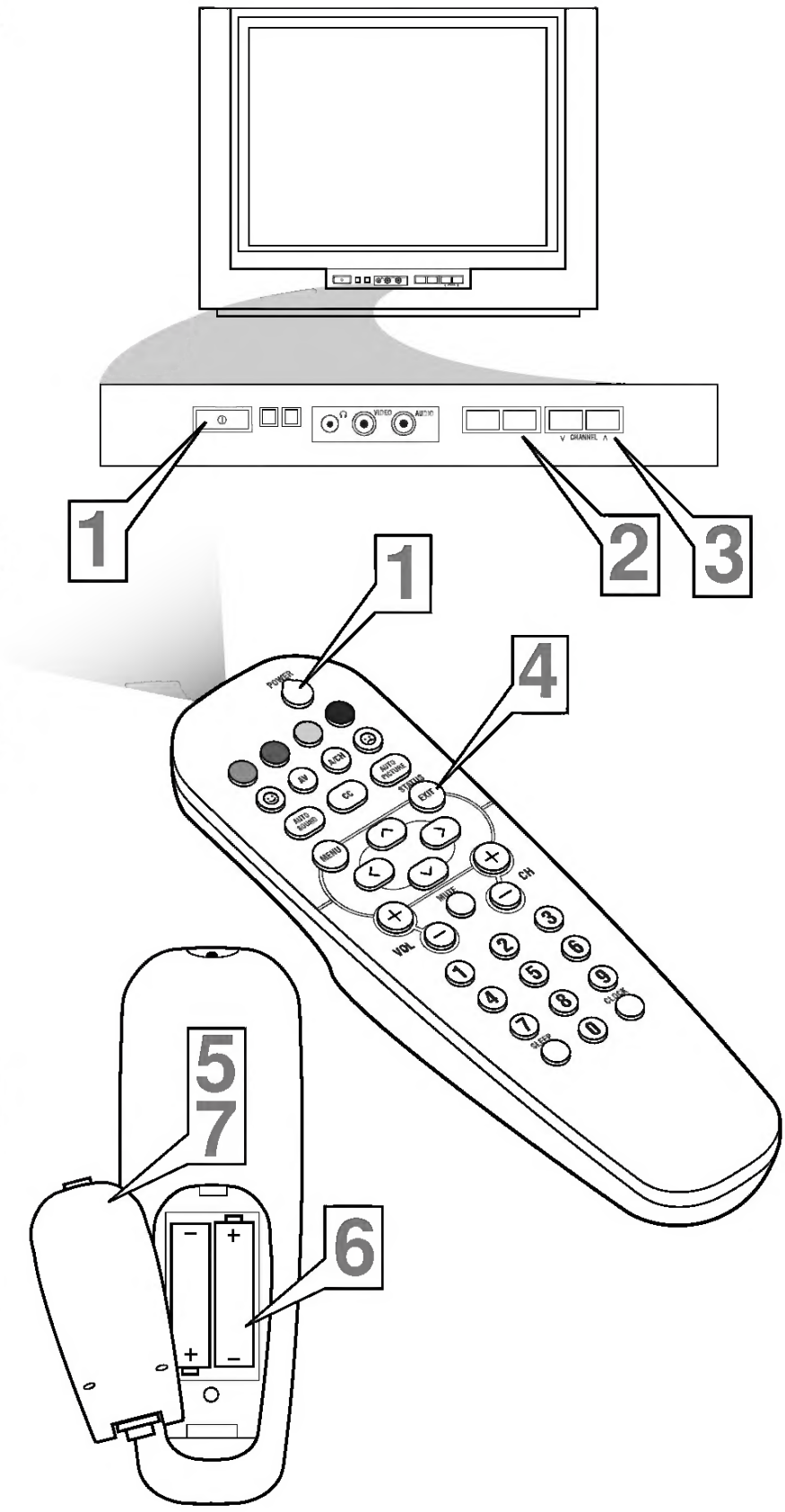
6 **Place the batteries (2-AA) in the remote.** Be sure the (+) and (-) ends of the batteries line up correctly (inside of case is marked.)

7 **Reattach the battery lid.**

Helpful Hint

Remember, the tuned channel number will always briefly appear when the TV is first turned ON (and with channel changes.)

You can also press the STATUS/EXIT button (on the remote) to see what channel the TV is ON.



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DESCRIPTION OF REMOTE CONTROL BUTTONS

QUADRA SURF Buttons **(Red, Green, Yellow, Blue)** Allows you to store and surf up to 10 channels you choose for each colored button.

AV Button - Press to select an accessory signal input from the front AV Inputs.

SMILEY Button - Press to add channels in the "Quadra Surf" lists. Works with all colored buttons.

CC Button - Press to activate the Closed Captioning options. Repeatedly press the CC button will scroll the options available on the TV screen.

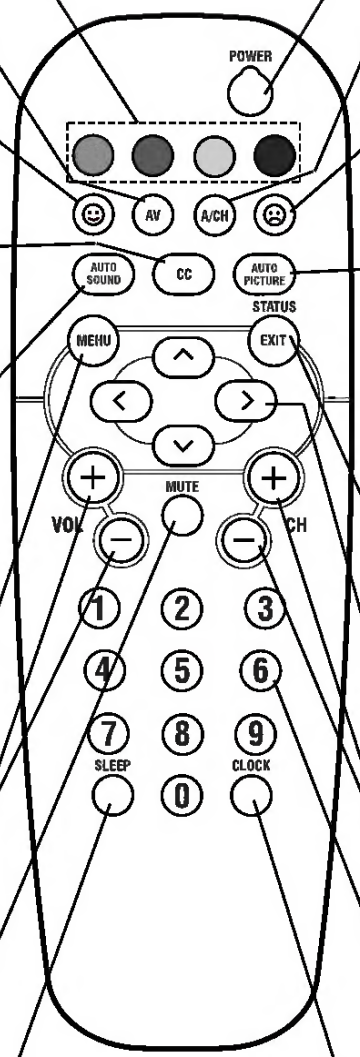
AUTO SOUND Button - Press repeatedly to choose from different factory pre-defined sound settings. Choose from Personal (how you set the Sound Menu options), Voice (for programming with speaking only), Music (for musical type programs such as concerts), or Theatre (used when watching movies).

MENU Button - Press to display the on-screen menu. Also can be used to back out of the on-screen menu until it disappears from the TV's screen.

VOL(ume) + or – Buttons - Press the VOL + button to increase the TV's sound level. Press the VOL – button to decrease the TV's sound level.

MUTE Button - Press the mute button to eliminate the sound being heard from the TV. "MUTE" will be displayed on the TV's screen. Press again to restore the TV's volume to it's previous level.

SLEEP Button - Press the Sleep button to set the TV to automatically turn itself off after a set period of time. Press repeatedly to select 15, 30, 45, 60, 90, 120, 180, or 240 minutes.



POWER button - Press the Power button to turn the TV on or off.

A/CH Button - **(Alternate Channel)** Press to toggle between the last view channel and the channel presently being viewed.

FROWNIE Button - Allows you to delete stored channels within the "Quadra Surf" lists for the colored buttons.

AUTO PICTURE Button - Press repeatedly to choose from 5 different factory pre-defined picture settings. Choose from Personal (how you set the Picture Menu adjustment controls), Movies (when watching movies), Sports (for any sporting event), Weak Signal (used when the signal being received is not the best), or Multi Media (for use with video gaming).

STATUS/EXIT Button - Press to display the current channel number. If the on-screen menu is displayed, press the Status/Exit button will remove it from the TV's screen.

CURSOR ∧, ∨, <, or > Buttons - Press to navigate, select and adjust controls within the on-screen menu.

CH(annel) + or – Buttons - Press to select channels in ascending or descending order.

NUMBERED (0-9) Buttons - Press the numbered buttons to select TV channels or to enter certain values within the on-screen menu. For single channel entries, press the numbered button for the channel you desire. the TV will pause for a second or two before changing to the chosen channel.

CLOCK Button - Press to display the "Timer" menu. Within this menu set the time, set the TV to tune to a certain channel at a certain time once, or daily.

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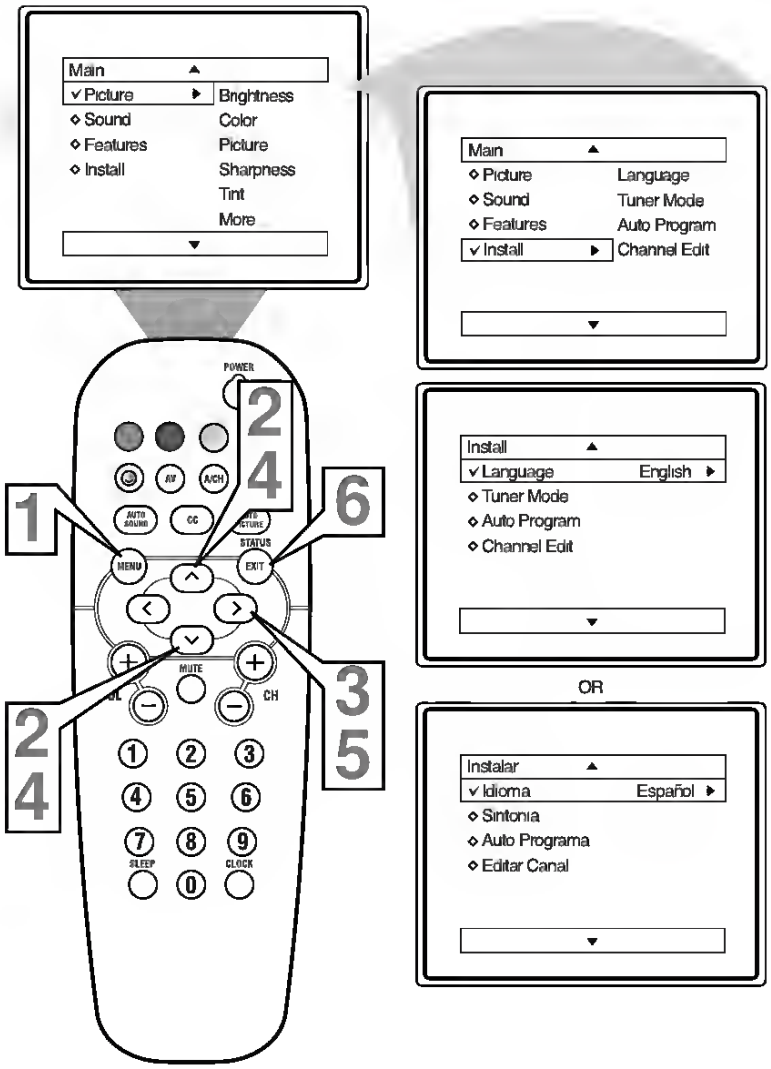
How to Use the Language Control

For our Spanish speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen menu to be shown in either English or Spanish.

1. **Press the MENU button** on the remote to show the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the on-screen menu until the word **INSTALL** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **INSTALL** menu features.
4. **Press CURSOR UP ▲ or DOWN ▼ buttons** to scroll the Install features until the word **LANGUAGE** is highlighted.
5. **Press the CURSOR RIGHT ▶ button repeatedly** to select **ENGLISH** or **ESPAÑOL** (Spanish).
6. **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



Helpful Hint

The Language control only makes the TV's on-screen MENU items appear in English or Spanish text.

It does not change the other on-screen text features such as Closed Caption (CC) TV shows.

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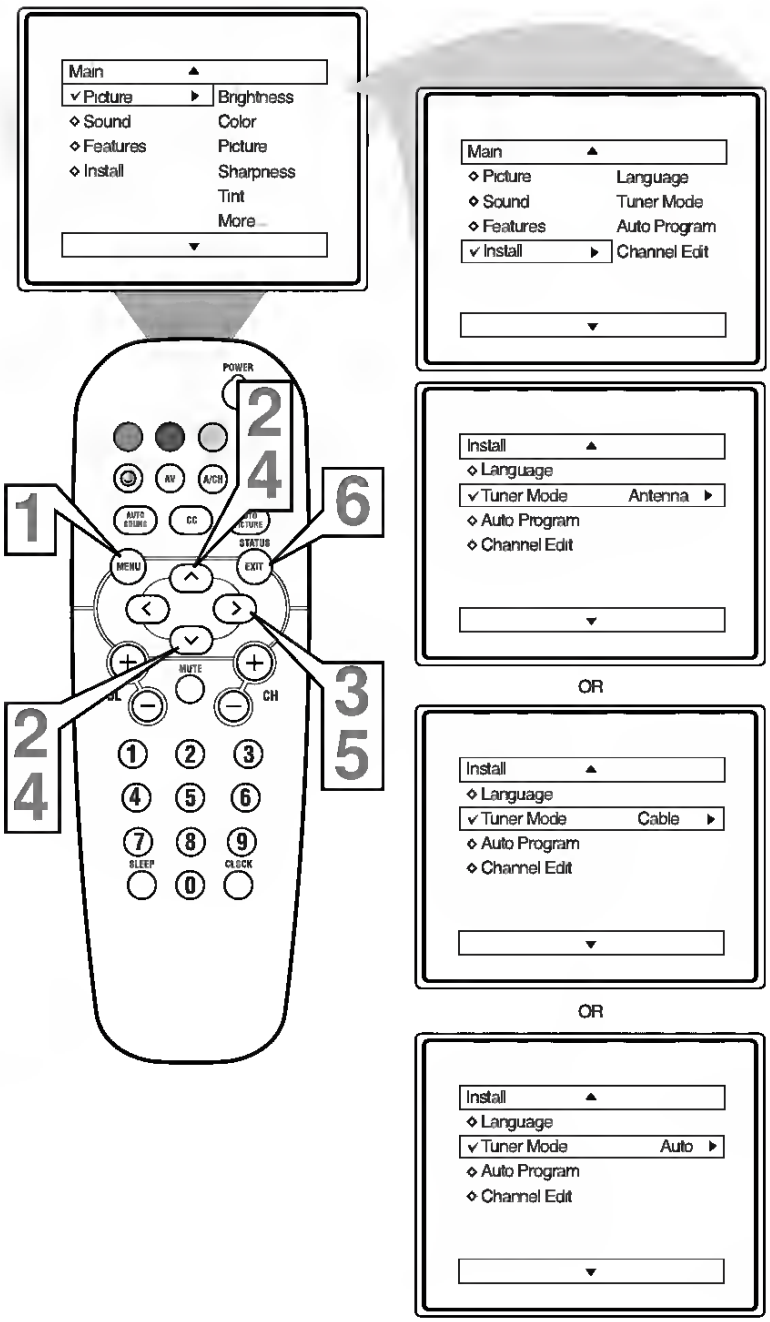
How to Use the Tuner Mode Control

The TUNER MODE control allows you to change the TV's signal input to either ANTENNA, CABLE or AUTO mode. It's important for the TV to know what type of signal to look for. (From a Cable TV signal or a normal Antenna signal.) In the AUTO mode, when the AUTO PROGRAM feature is activated, the TV will automatically choose the correct mode.

1. **Press the MENU button** on the remote to show the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the on-screen menu until the word **INSTALL** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **INSTALL** menu features.
4. **Press CURSOR UP ▲ or DOWN ▼ buttons** to scroll the Install features until the words **TUNER MODE** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to select either **ANTENNA, CABLE**, or **AUTO** mode.
6. **When finished, press the STATUS /EXIT button** to remove the on-screen menu from the TV's screen.



Helpful Hint

When CABLE is selected, channels 1-125 are available.

When ANTENNA is selected, channels 2-69 are available.

When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

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How to Automatically Program Channels

Your TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+), (–) buttons are pressed.

Note: Make sure the antenna or cable signal connection has been completed before AUTO PROGRAM is activated.

1 **Press the MENU button** on the remote to show the on-screen menu.

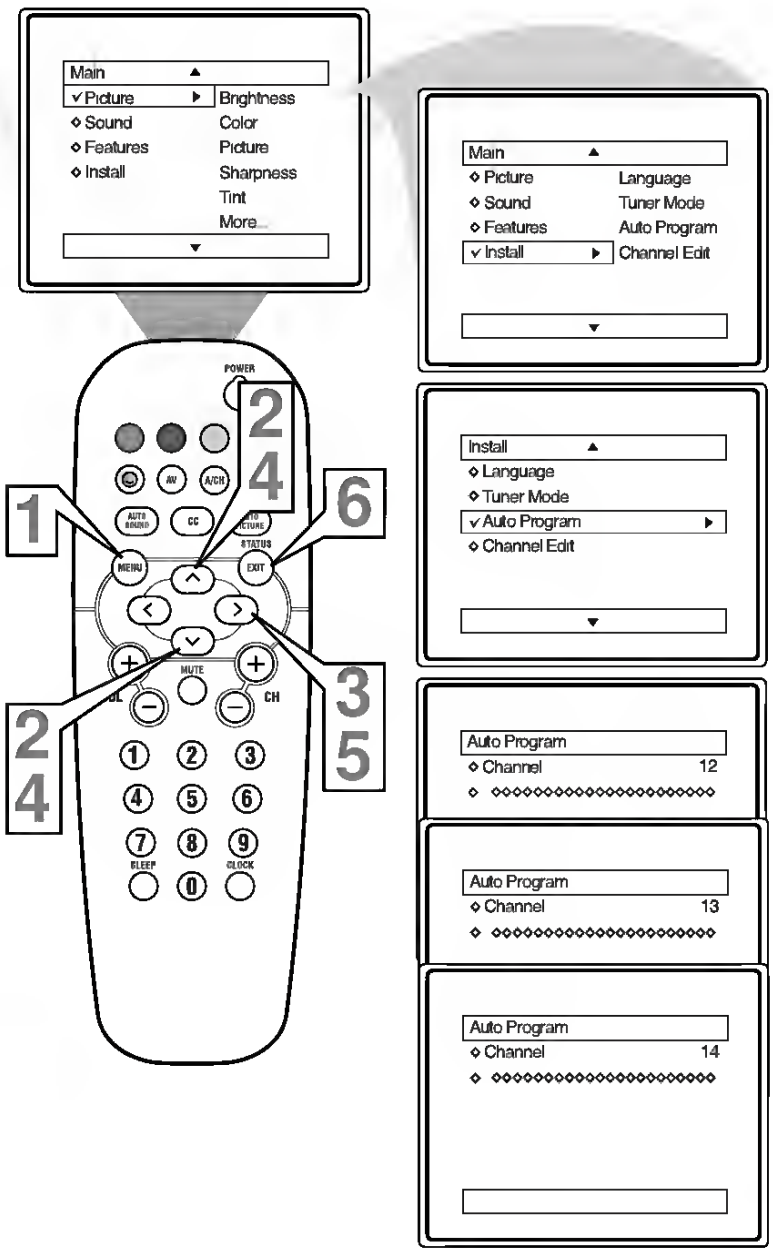
2 **Press tbe CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR RIGHT ▶ button** to display the **INSTALL** menu features.

4 **Press CURSOR UP ▲ or DOWN ▼ buttons** to scroll the Install features until the words **AUTO PROGRAM** are highlighted.

5 **Press tbe CURSOR RIGHT ▶ button** to start the Auto Program scanning of channels. Auto Programming will store all available channels in the TV's memory then tune to the lowest available channel when done.

6 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



Helpful Hint

When CABLE is selected, channels 1-125 are available.

When ANTENNA is selected, channels 2-69 are available.

When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

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How to Add or Delete Channels

Channel Edit makes it easy for you to ADD or DELETE channels from the list of channels stored in the TV's memory.

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR RIGHT ▶ button** to display the **INSTALL** menu features.

4 **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll the Install features until the words **CHANNEL EDIT** are highlighted.

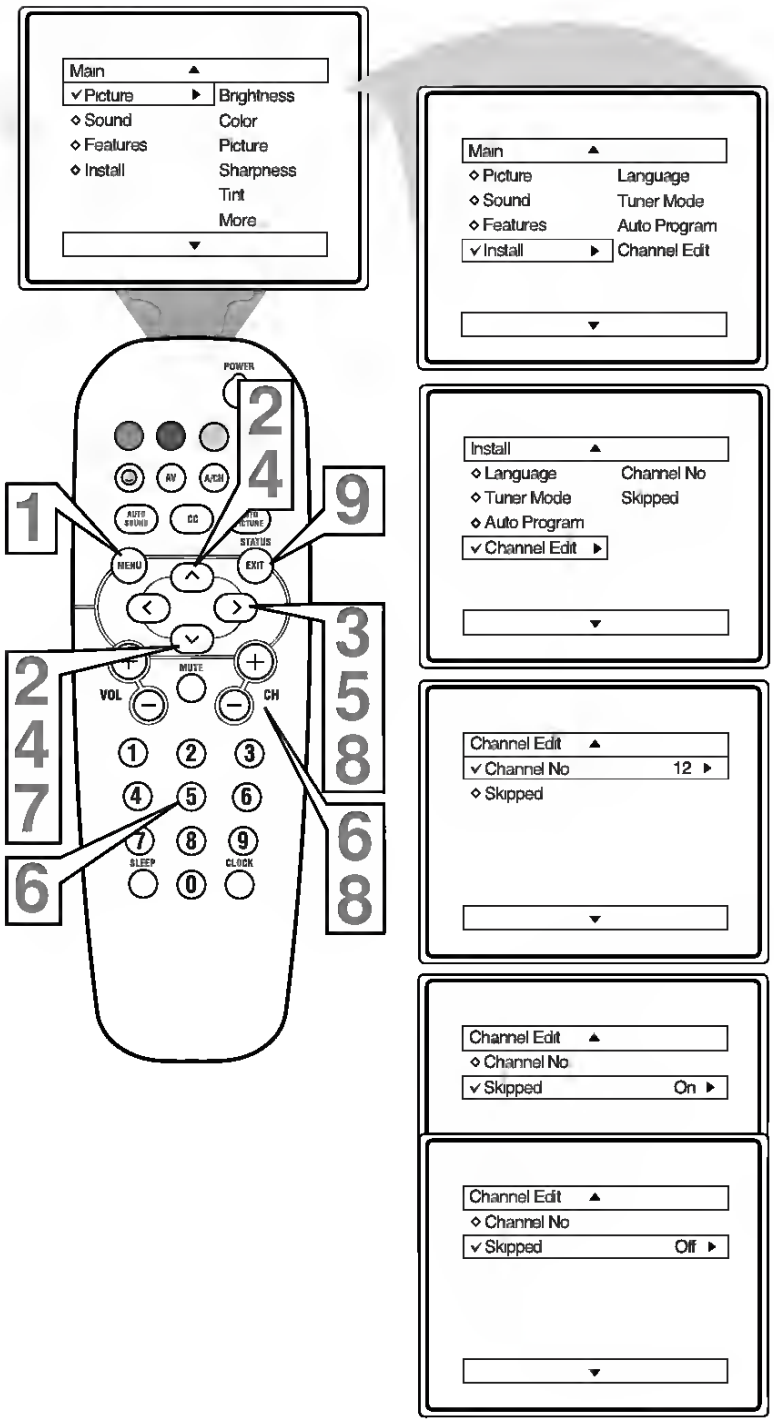
5 **Press the CURSOR RIGHT ▶ button** to display the **CHANNEL EDIT** options.

6 **With the CHANNEL EDIT options displayed**, and **CHANNEL NO.** highlighted; enter the channel number (with the **NUMBERED or the CH + or – buttons**) you wish to add (Skipped OFF), or delete (Skipped ON) from the TV's memory.

7 **Using the CURSOR DOWN ▼** button, scroll the menu to highlight the word **SKIPPED.**

8 **Now use the CURSOR RIGHT ▶ button to toggle between ON or OFF. If ON is selected** the channel is skipped when scrolling channels with the CH + or – buttons. **If OFF is selected** the channel is not skipped when scrolling channels with the CH + or – buttons.

9 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



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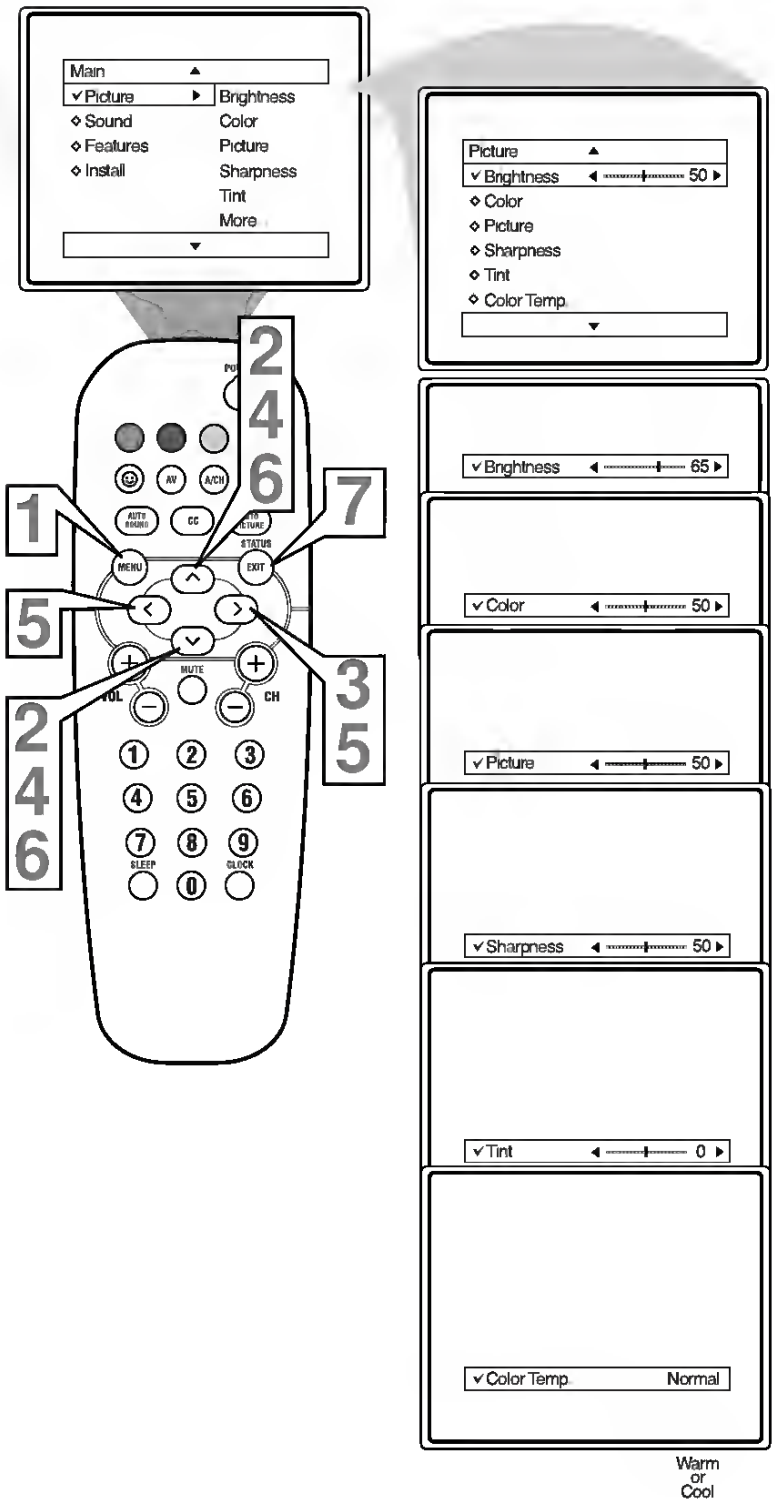
How to Use the Picture Adjustment Controls

To adjust your TV picture controls, select a channel and follow the steps shown below:

1. **Press the MENU button** on the remote to display the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the word **PICTURE** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **PICTURE** menu features.
4. **Press CURSOR UP ▲ or DOWN ▼ buttons** to scroll the Picture features and bighlight the control you wish to adjust (Brightness, Color, Picture, Sharpness, Tint, or Color Temp.).
5. **Press the CURSOR RIGHT ▶ or the CURSOR LEFT ◀ buttons** to adjust the selected control or to make selections for the Color Temp. control (Normal, Warm, or Cool).
6. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to select and adjust other Picture Menu controls.
7. **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



Helpful Hint

BRIGHTNESS **Press the ▶ or ◀** buttons until darkest parts of the picture are as bright as you prefer.

COLOR **Press the ▶ or ◀** buttons to add or eliminate color.

PICTURE **Press the ▶ or ◀** buttons until lightest parts of the picture show good detail.

SHARPNESS **Press the ▶ or ◀** buttons to improve detail in the picture.

TINT **Press the ▶ or ◀** buttons to obtain natural skin tones.

COLOR TEMP **Press the ▶ or ◀** buttons to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

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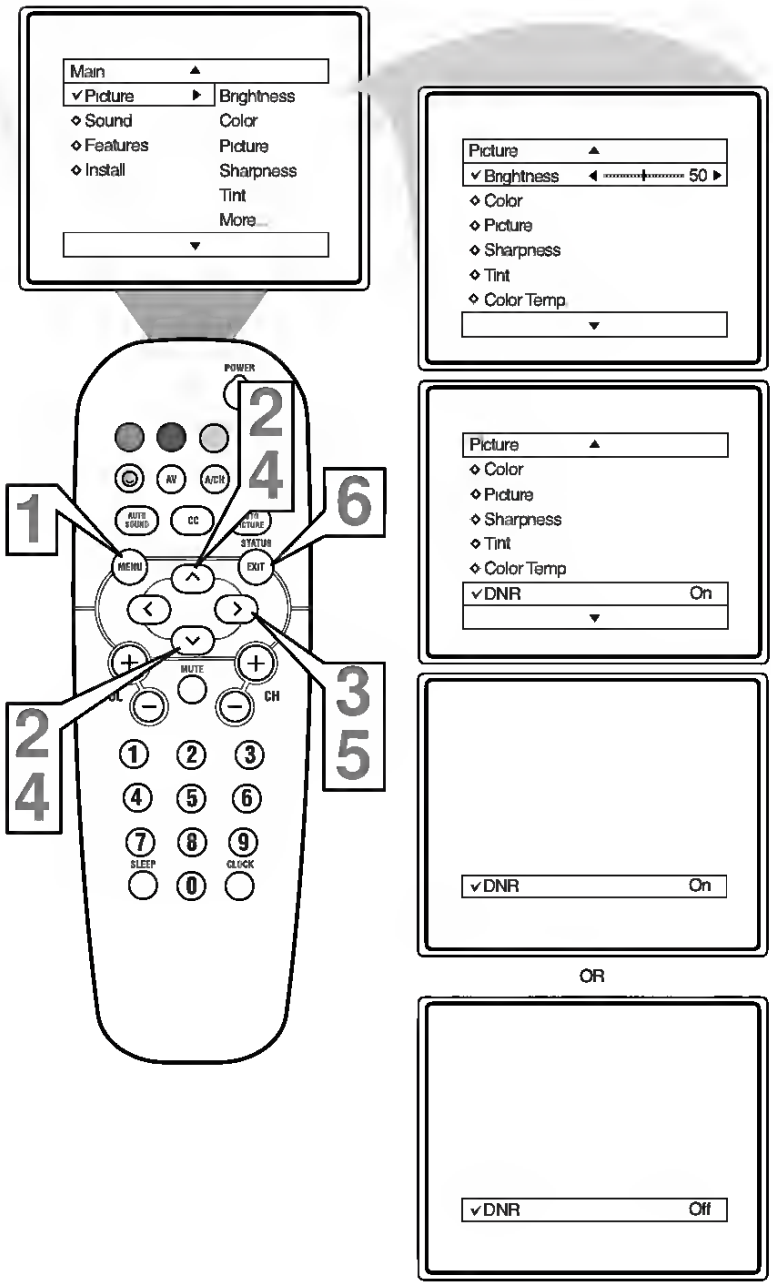
How to Use the DNR (Noise Reduction) Control

For reasons such as poor cable reception, the picture can sometime appear slightly "speckled" (or signal noise shown in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

1. **Press the MENU button** on the remote to display the on-screen menu.
2. **Press the CURSOR UP ▲ or CURSOR DOWN ▼ button** until the word **PICTURE** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **PICTURE** menu features.
4. **Press the CURSOR UP ▲ or CURSOR DOWN ▼** button to scroll the Picture menu features until the word **DNR** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** turn the **DNR** feature ON or OFF.
6. **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



Helpful Hint

"Noise" Reduction is a video adjustment feature that affects the picture quality of the TV not the sound.

NOTE: If the Sharpness control setting is under 50 (see Picture Adjustments on the previous page), the DNR control will have little or no effect to the TV's picture when switched to ON.

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How to Use the Contrast + (Black Stretch) Control

The Contrast + (Black Stretch) control helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

1 **Press the MENU button** on the remote to display the on-screen menu.

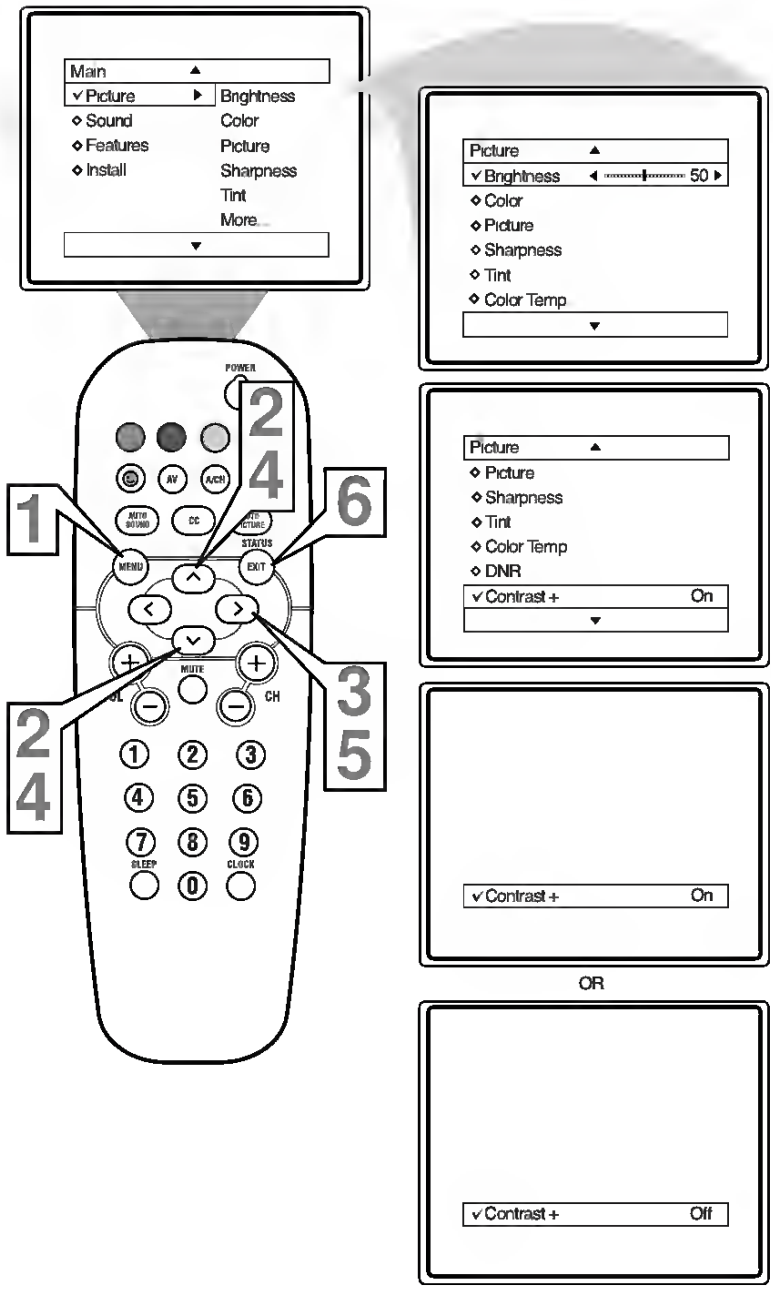
2 **Press the CURSOR UP ▲ or CURSOR DOWN ▼ button** until the word **PICTURE** is highlighted.

3 **Press the CURSOR RIGHT ▶ button** to display the **PICTURE** menu features.

4 **Press the CURSOR UP ▲ or CURSOR DOWN ▼** button to scroll the Picture menu features until the word **CONTRAST +** is highlighted.

5 **Press the CURSOR RIGHT ▶ button** turn the **CONTRAST +** feature ON or OFF.

6 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



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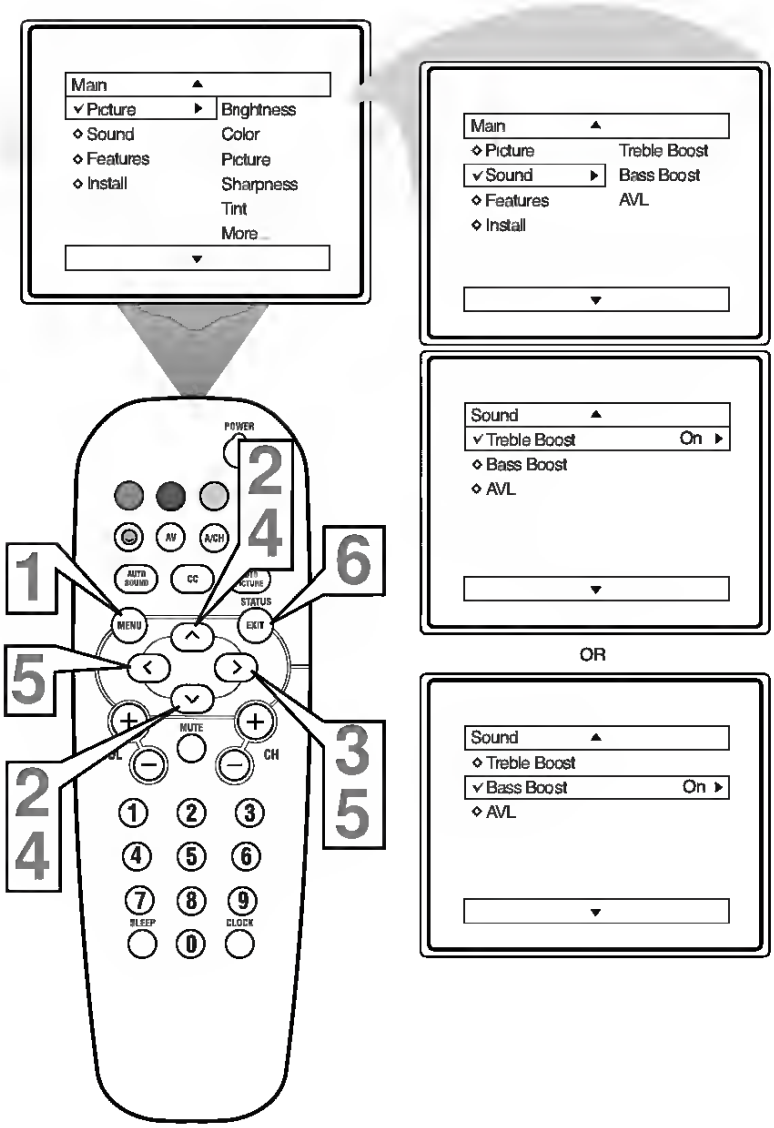
How to Use the Treble Boost and Bass Boost Controls

Besides the normal volume level control, your TV also has Treble Boost, Bass Boost sound controls. The TREBLE BOOST control effects only the high frequency sound coming from the TV enhancing the highs; while the BASS BOOST control effects only the low frequency sound coming from the TV enhancing the lows.

1. **Press the MENU button** on the remote to display the on-screen menu.
2. **Press the CURSOR UP ▲ or CURSOR DOWN ▼ button** until the word **SOUND** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **SOUND** menu features.
4. **Press the CURSOR UP ▲ or CURSOR DOWN ▼** button to scroll the Sound menu features until the control you wish to change is highlighted (**TREBLE or BASS BOOST**).
5. **Press the CURSOR RIGHT ▶ or LEFT ◀ button** to turn the **Treble or Bass Boost controls On or OFF.**
6. **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



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How to Use the AVL (Automatic Volume Leveler) Control

In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

1 **Press the MENU button** on the remote to display the on-screen menu.

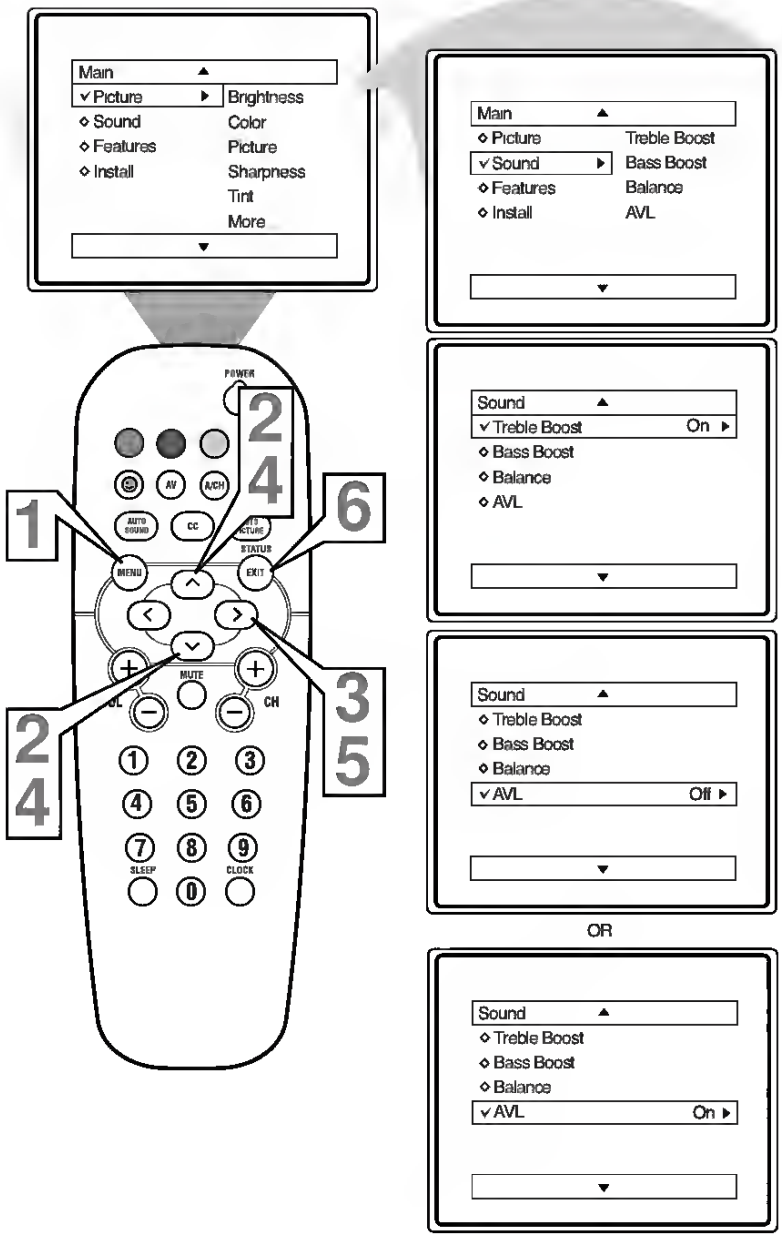
2 **Press the CURSOR UP ▲ or CURSOR DOWN ▼ button** until the word **SOUND** is highlighted.

3 **Press the CURSOR RIGHT ▶ button** to display the **SOUND** menu features.

4 **Press the CURSOR UP ▲ or CURSOR DOWN ▼** button to scroll the Sound menu features until the word **AVL** is highlighted.

5 **Press the CURSOR RIGHT ▶ button** to turn the **AVL** control ON or OFF.

6 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



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How to Use the Timer Controls

The Timer controls allow you to use your TV as an alarm clock if set to turn itself on and off at a specific time. It also can be set to tune to a specific channel at a specific time.

1 **Press the CLOCK button** on the remote to display the Timer on-screen menu.

2 **Press the CURSOR UP ▲ or DOWN ▼ button** to highlight one of the Timer controls you wish to set (Time, Start Time, Stop Time, Channel No., Activate, or Display).

3 **Press the CURSOR RIGHT ▶ button** to adjust the selected option.

TIME: Enter the current time with the numbered buttons. Use the Cursor Right button to move to the AM/PM area and use the Cursor Left or Right to toggle AM/PM.

START TIME: Use the numbered buttons to enter a start-up time for the TV to turn on or to tune a specific channel

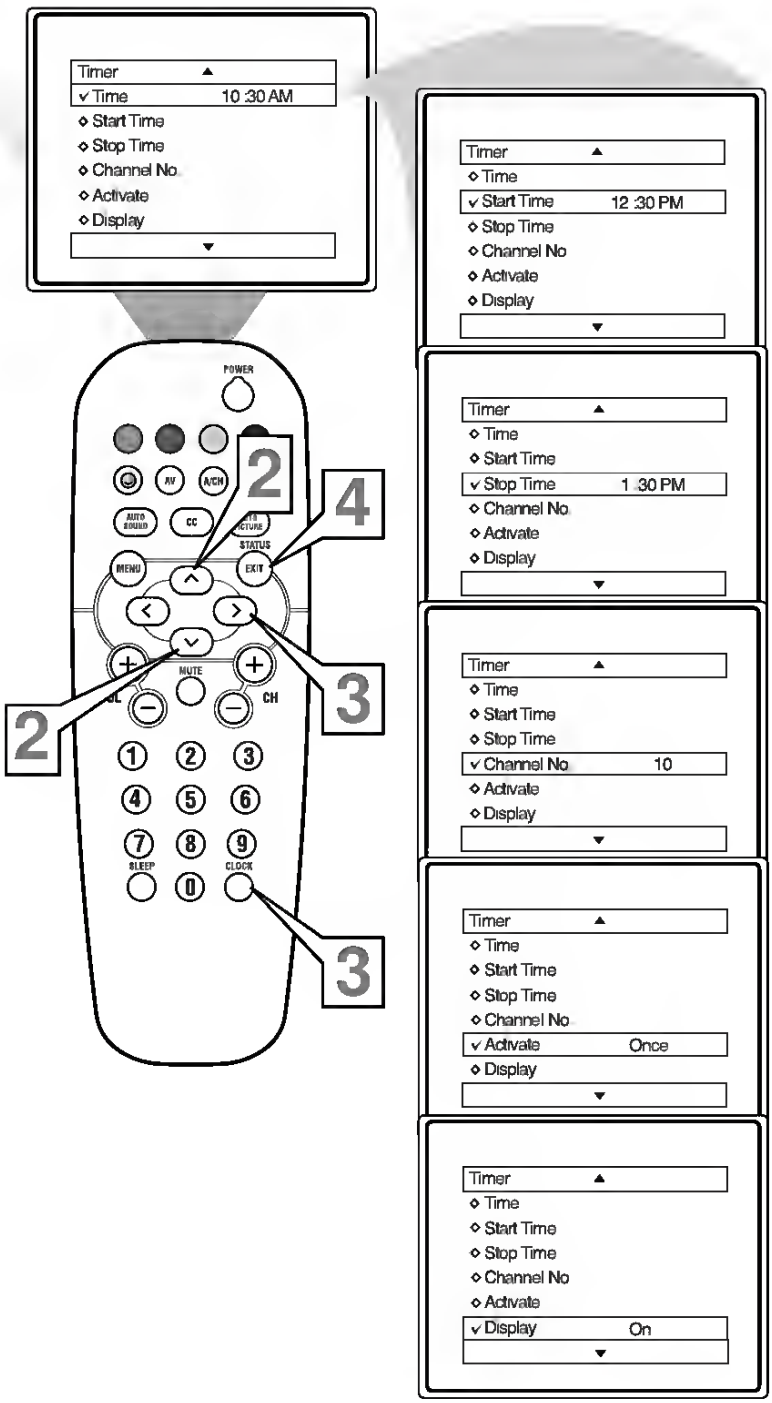
STOP TIME: Use the numbered buttons to enter a time for the TV to shut itself off.

CHANNEL NO.: Use the numbered buttons to select a specific channel for the TV to tune to at the specific Start Time.

ACTIVATE: Set the Timer to preform it's function ONCE or DAILY.

DISPLAY: Set to ON or OFF. When ON, the time will be displayed ALL the time the TV is on. If OFF is selected, the time will only appear when the STATUS/EXIT button is pressed.

4 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.



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UNDERSTANDING THE AUTOLOCK™ CONTROLS

The AutoLock™ feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of viewing children may watch.

***Over the next few pages you'll learn how to block channels** and certain rated programming. Below is a brief explanation of some terms and ratings you will find in the AutoLock feature.*

AutoLock™ offers various BLOCKING controls from which to choose:

Access Code: An Access Code must be set to prevent children from unblocking questionable or censored programming set by their parents.

Channel Block: After an access code has been programmed, you can block individual channels including the A/V inputs.

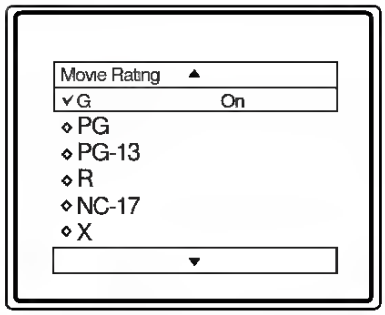
Clear All: Allows you clear all channels being blocked from your viewing set with the Channel Block Control.

Block All: Allows you to block ALL channels and A/V inputs at one time.

Movie Ratings: Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America.

TV Ratings: Just like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by TV broadcasters.

To learn more about the Motion Picture Association of America Ratings and the TV Broadcasters Television Ratings, refer to the definitions listed on the columns to the right.



MOVIE RATINGS
(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

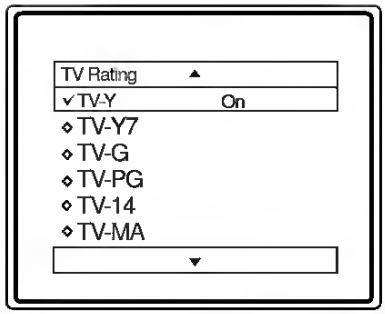
PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children.) It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted -This is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.



TV PARENTAL GUIDELINES
(TV BROADCASTERS)

TV-Y - (**All children** -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 - (**Directed to Older Children** -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G - (**General Audience** -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG - (**Parental Guidance Suggested** -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14 - (**Parents Strongly Cautioned** -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV-MA - (**Mature Audience Only** -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

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SETTING UP AN AUTOLOCK™ ACCESS CODE

Over the next few pages you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

First, let's start by learning how to set a personal access code:

1 **Press the MENU button** on the remote to display the on-screen menu.

2 **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.

4 **Press the CURSOR UP ▲ or DOWN ▼ button** until the words AUTOLOCK are highlighted.

5 **Press the CURSOR RIGHT ▶ button.** The screen will read, **"ACCESS CODE - - - - ."**

6 **Using the NUMBERED buttons, enter 0, 7, 1, 1. "XXXX"** appears on the Access Code screen as you press the numbered buttons.

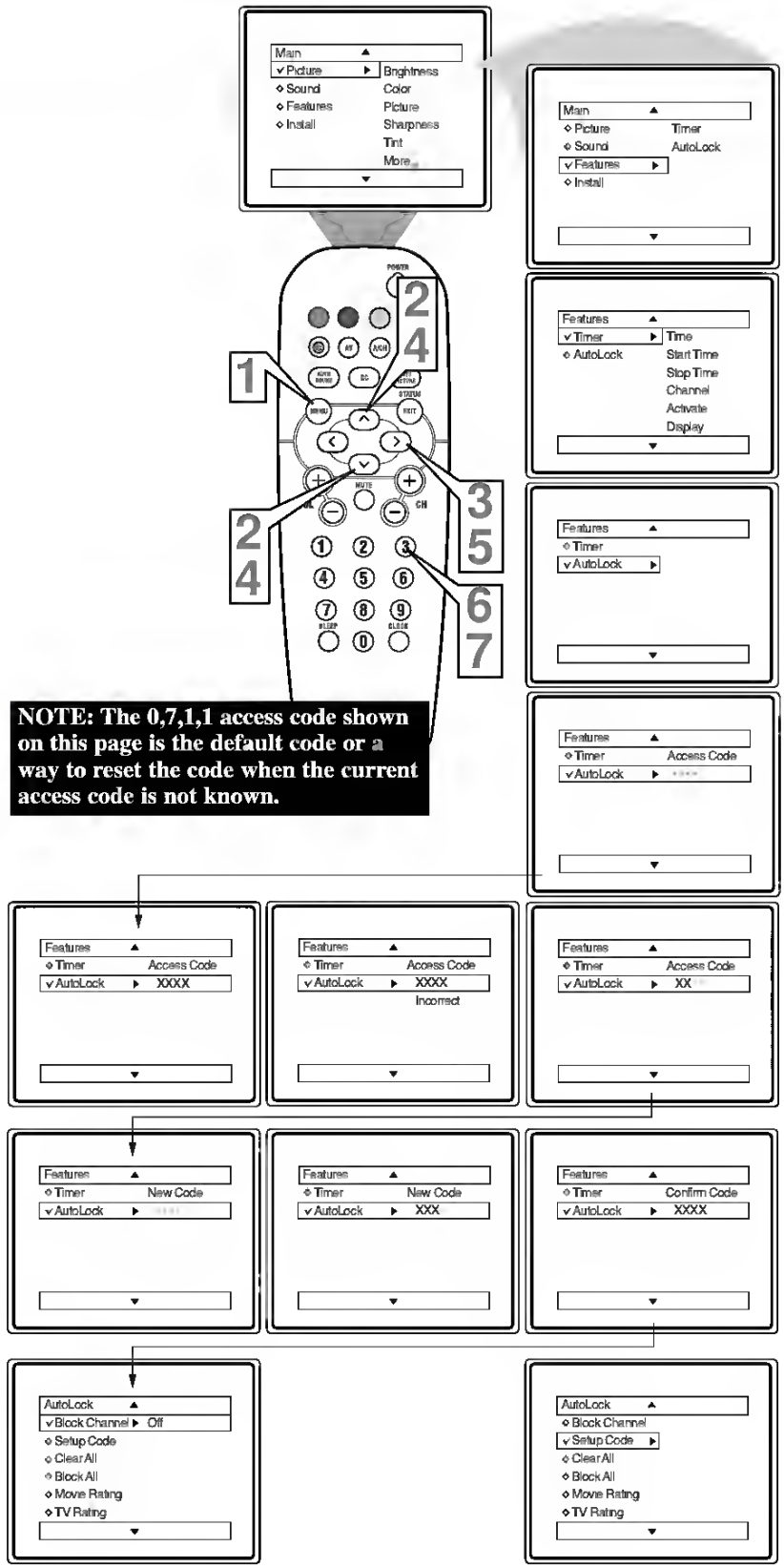
"INCORRECT CODE" will appear on the screen, and **you will need to enter 0, 7, 1, 1 again.**

7 The screen will ask you to enter a "New Code." **Enter a "new" 4 digit code using the NUMBERED buttons.** The screen will then ask you to CONFIRM the code you just entered. **Enter your new code again. "XXXX"** will appear when you enter your new code and then display the AutoLock menu options.

Proceed to the next page to learn more...

HELPFUL HINT

Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and blocked channels have been viewed.



NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

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How to Block Channels

After your personal access code has been set (see previous page), you are now ready to select the channels you want to block out or censor.

1 **Press the NUMBERED (or CH +, –) buttons** to tune the channel you wish to block or censor.

2 **Press the MENU button** on the remote to show the on-screen menu.

3 **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.

4 **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.

5 **Press the CURSOR UP ▲ or DOWN ▼ button** until the words AutoLock are highlighted.

6 **Press the CURSOR RIGHT ▶ button. "INCORRECT CODE"** will appear on the screen, and **you will need to enter 0, 7, 1, 1 again.**

7 **Enter the correct access code number. "XXXX"** shows on the Access Code display as you **press the NUMBERED buttons.** AutoLock menu options will be displayed.

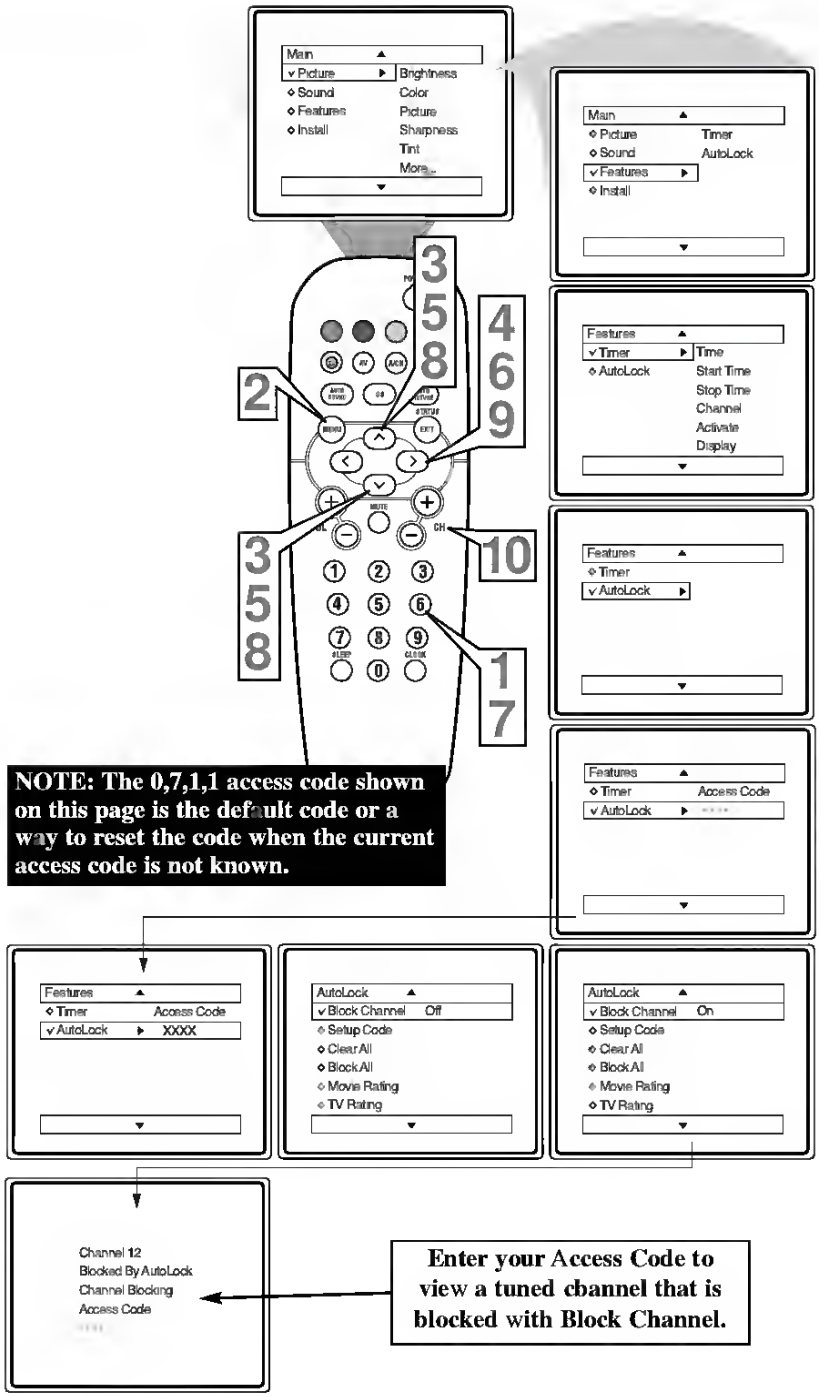
8 **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words **BLOCK CHANNELS** are highlighted.

9 **Press the CURSOR RIGHT ▶ button** to turn blocking ON or OFF for that channel. When ON is selected the channel will be blocked.

10 **Press the CH + or – button** to select other channels you wish to block. Repeat step 9 to block the new channel.

Helpful Hint

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.



NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

Enter your Access Code to view a tuned channel that is blocked with Block Channel.

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How to Clear All Blocked Channels at the Same Time

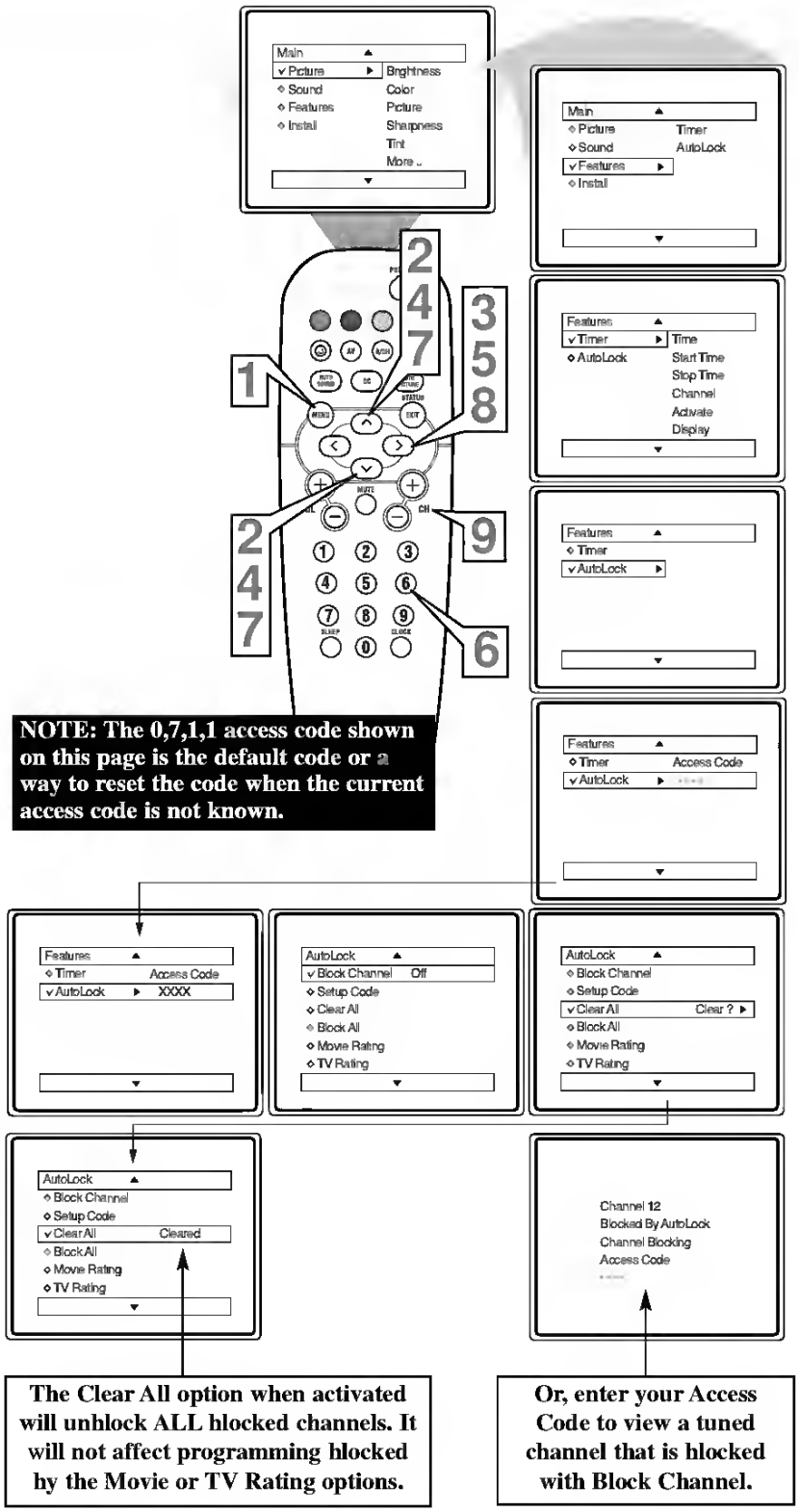
After blocking specific channels there may come a time when you want to clear all the channels so they can be viewed. The following steps explain how to CLEAR ALL blocked channels.

1. **Press the MENU button** on the remote to show the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.
4. **Press the CURSOR UP ▲ or DOWN ▼ button** until the words AutoLock are highlighted.
5. **Press the CURSOR RIGHT ▶ button.**
6. **Enter the correct access code number. "XXXX"** shows on the Access Code display as you **press the NUMBERED buttons.** AutoLock menu options will be displayed.
7. **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words **CLEAR ALL** are highlighted.
8. **Press the CURSOR RIGHT ▶ button** to clear all blocked channels. The Clear All option will read, "Cleared."
9. **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen.

Helpful Hint

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV is powered OFF and then turned back ON. When the TV is powered back ON, the previously blocked channels will be blocked again.

CLEAR ALL will not work with the Movie and TV Ratings. These options must be reset individually.



NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

The Clear All option when activated will unblock ALL blocked channels. It will not affect programming blocked by the Movie or TV Rating options.

Or, enter your Access Code to view a tuned channel that is blocked with Block Channel.

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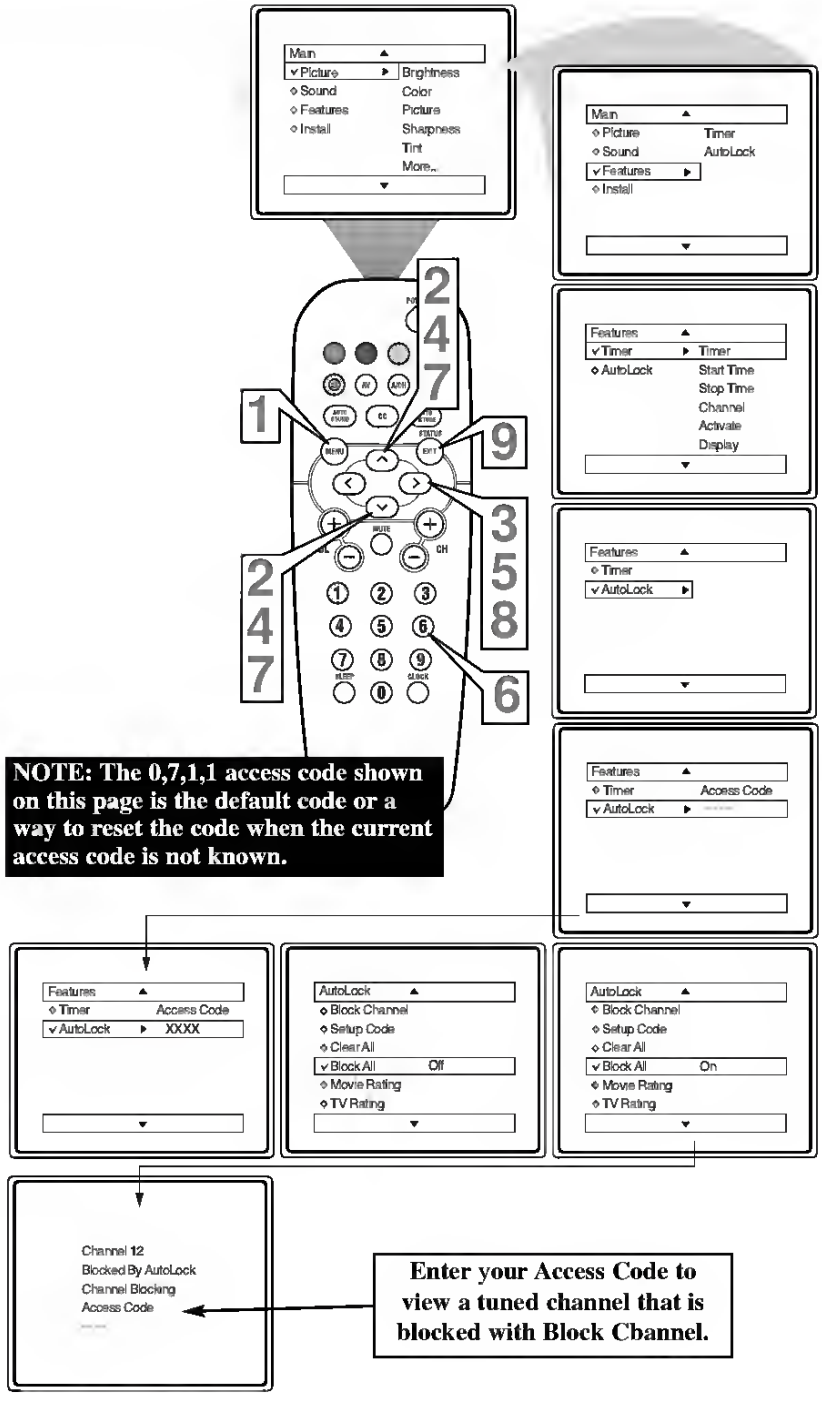
How to Block All Channels at the Same Time

There may come a time when you want to Block All the television's channels. Maybe you don't want your children to watch TV for a given time. With the Block All control, ALL available channels (including the A/V Inputs) can be set to block at the same time.

1. **Press the MENU button** on the remote to show the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.
4. **Press the CURSOR UP ▲ or DOWN ▼ button** until the words AutoLock are highlighted.
5. **Press the CURSOR RIGHT ▶ button.**
6. **Enter the correct access code number. "XXXX"** shows on the Access Code display as you **press the NUMBERED buttons.** AutoLock menu options will be displayed.
7. **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words **BLOCK ALL** are highlighted.
8. **Press the CURSOR RIGHT ▶ button** to turn Block All ON or OFF. When ON is selected, ALL available channels will be blocked.
9. **When finished, press the STATUS/EXIT button** to remove the menu from the screen.



Helpful Hint

If you tune to a blocked channel and enter your Access Code to view the channel, ALL blocked channels will be viewable until the TV has been turned off. When the TV is powered back ON, the previously blocked channels will be blocked again.

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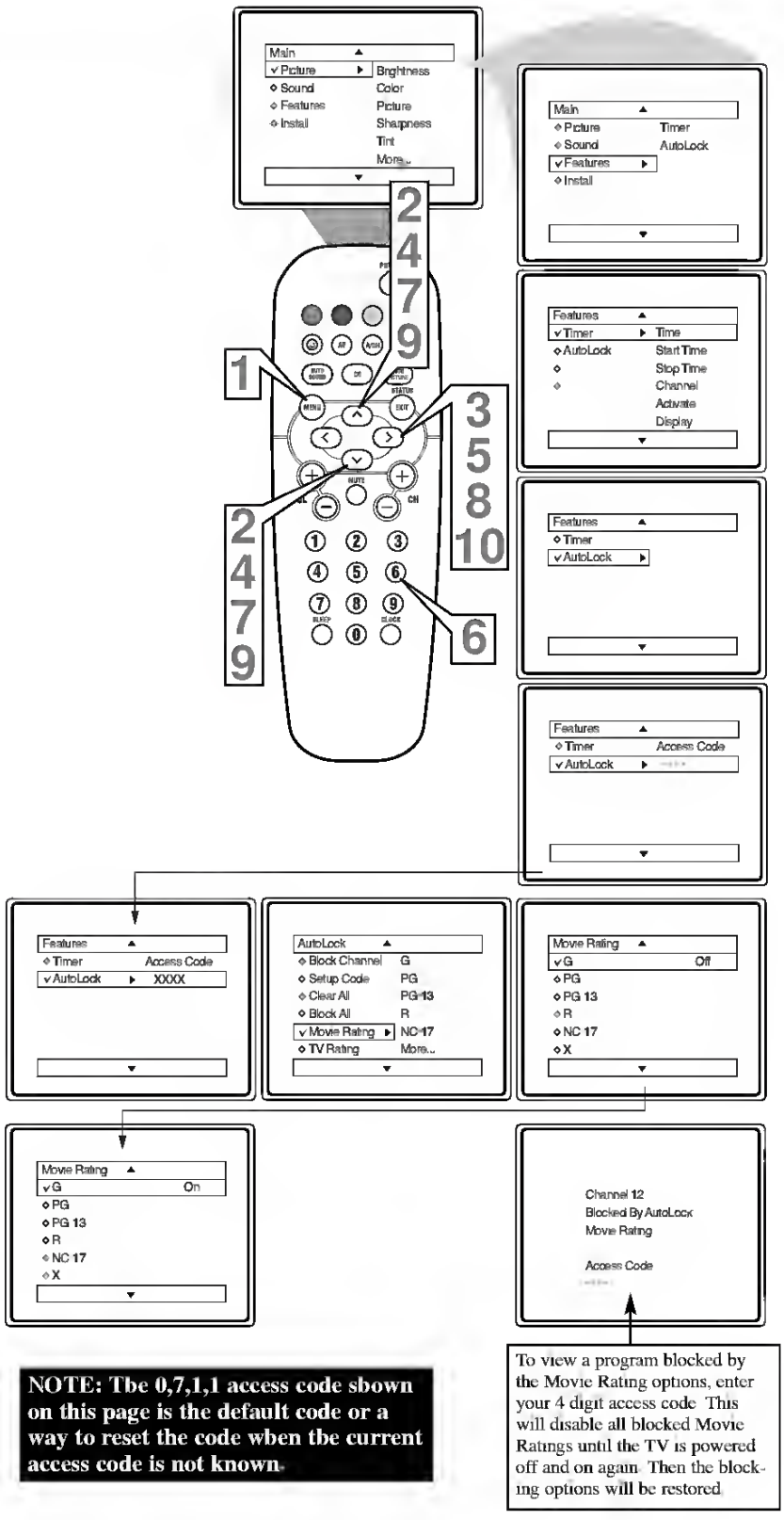
BLOCKING PROGRAMS BASED ON MOVIE RATINGS

There are two types of program ratings within the AutoLock™ feature. One is based on the Movie Industry ratings while the other is based on the TV Industry ratings. Both can be used to block or censor programming that has been rated in either manner.

Let's first look at the Movie Rating options of AutoLock™:

1. **Press the MENU button** on the remote to display the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.
4. **Press the CURSOR UP ▲ or DOWN ▼ button** until AutoLock is highlighted.
5. **Press the CURSOR RIGHT ▶ button.** The screen will prompt you for your Access Code.
6. **Using the NUMBERED buttons** on the remote, enter your 4 digit Access Code. The AutoLock menu options will be displayed.
7. **Press the CURSOR UP ▲ or DOWN ▼ button** to highlight the words MOVIE RATINGS.
8. **Press the CURSOR RIGHT ▶ button** to display the **MOVIE RATINGS** options (G, PG, PG-13, R, NC17, or X).
9. **Press the CURSOR UP ▲ or DOWN ▼ button** to highlight any of the Movie Ratings options. When highlighted, all these options can be turned **ON** *(which will allow blocking)* or **OFF** *(which will allow viewing).*
10. **Use the CURSOR RIGHT ▶ button** on the remote to turn the rating option ON or OFF.



NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

To view a program blocked by the Movie Rating options, enter your 4 digit access code. This will disable all blocked Movie Ratings until the TV is powered off and on again. Then the blocking options will be restored.

HELPFUL HINT

When a rating is set to block, all higher ratings will be automatically blocked as well. (Example: If the the PG-13 rating is set to block, the R, NC-17, and X ratings will also be blocked.

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BLOCKING PROGRAMS BASED ON TV RATINGS

This portion of the AutoLock™ features cover program ratings based on the TV Industry rating system. This is known as TV Ratings within AutoLock™.

After selecting the Autolock™ feature and entering your personal access code, the AutoLock™ options screen appears;

1 **Scroll the menu using the CURSOR UP ▲ or DOWN ▼ buttons** until the words **TV RATINGS** are highlighted.

2 **Press the CURSOR RIGHT ▶ button** to display the **TV Ratings (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).** When highlighted, the TV-Y and TV-G can be turned **ON** *(which will allow blocking)* or **OFF** *(which will allow viewing)*, of these rated programs.

The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).

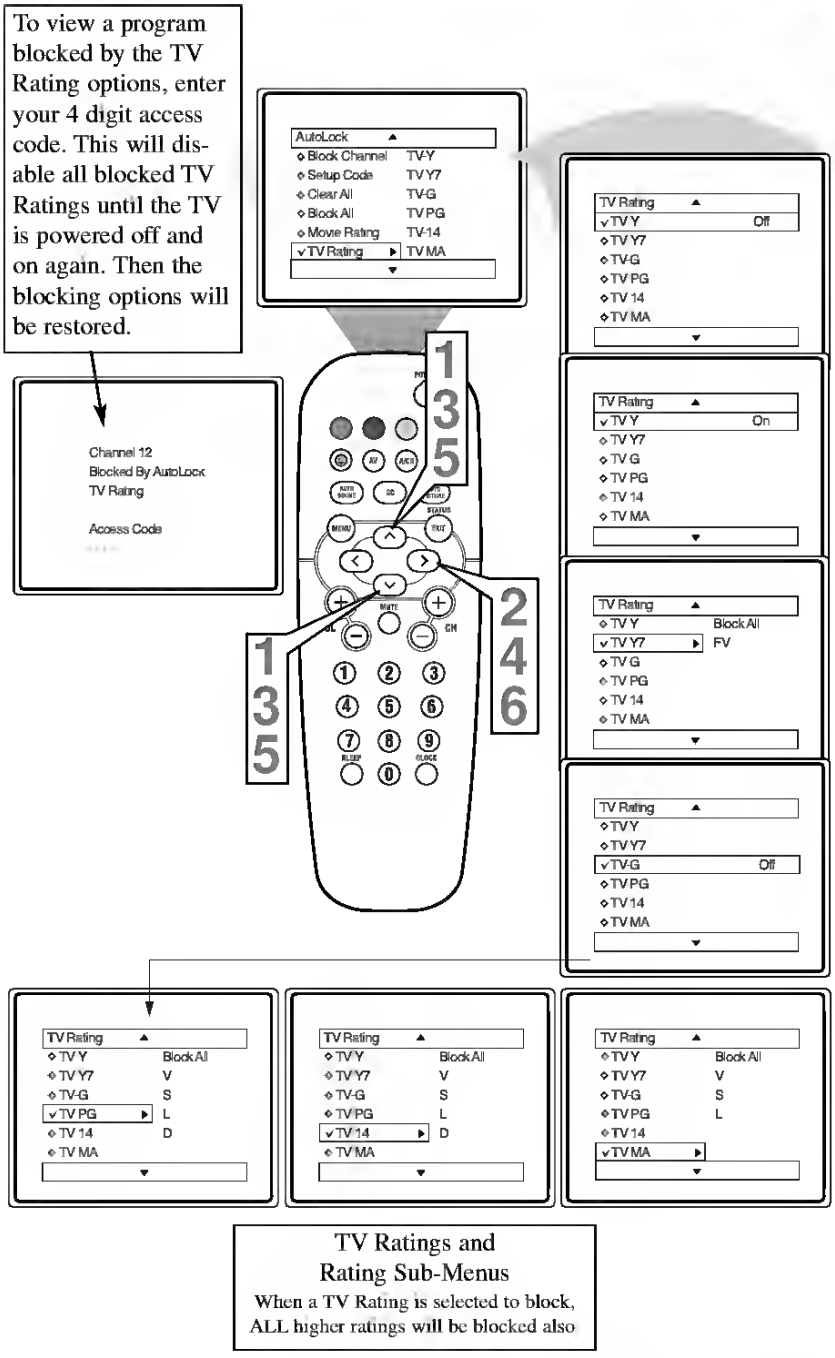
3 **Press the CURSOR UP ▲ or DOWN ▼ button** to highlight the desired rating.

4 **Press the CURSOR RIGHT ▶ button** on the remote to turn the TV-Y or TV-G rating ON or OFF. **Or, press the CURSOR RIGHT ▶ button** to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.

5 If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, **press the CURSOR UP ▲ or CURSOR DOWN ▼ button** to select one of the options (Block All, V, S, L, D, or FV).

6 **Press tbe CURSOR RIGHT ▶ button** on the remote to turn the option ON or OFF.

To view a program blocked by the TV Rating options, enter your 4 digit access code. This will disable all blocked TV Ratings until the TV is powered off and on again. Then the blocking options will be restored.



TV Ratings and Rating Sub-Menus

When a TV Rating is selected to block, ALL higher ratings will be blocked also

TV-Y - (All children – *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 - (Directed to Older Children -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G - (General Audience -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language and little or no sexual dialogue or situations.

TV-PG - (Parental Guidance Suggested – *This program contains material that parents may find unsuitable for younger children.*)This type of programming contains one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-14 - (Parents Strongly Cautioned – *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-MA - (Mature Audience Only -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: crude indecent language (L), explicit sexual situations (S), or graphic violence (V).

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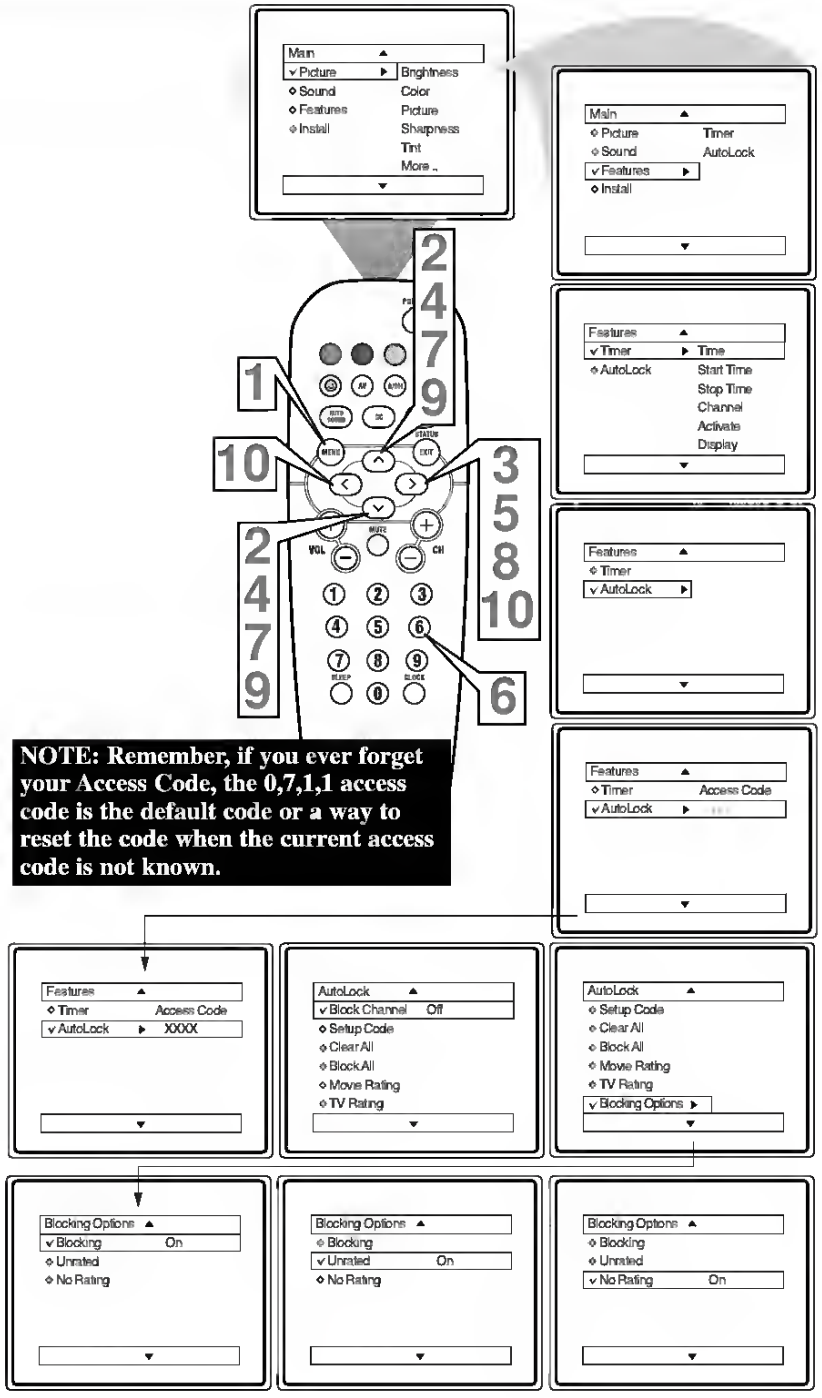
OTHER AUTOLOCK™ BLOCKING OPTIONS

AutoLock™ offers the viewer other blocking features as well. With these Blocking Options, the censoring can be turned ON or OFF.

1. **Press the MENU button** on the remote to show the on-screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the FEATURES menu options.
4. **Press the CURSOR UP ▲ or DOWN ▼ button** until the words AutoLock are highlighted.
5. **Press the CURSOR RIGHT ▶ button.**
6. **Enter the correct access code number. "XXXX"** shows on the Access Code display as you **press the NUMBERED buttons.** AutoLock menu options will be displayed.
7. **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words **BLOCKING OPTIONS** are highlighted.
8. **Press the CURSOR RIGHT ▶ button** to display the **Blocking Options (BLOCKING, UNRATED, or NO RATING) menu.**
9. **Press the CURSOR UP ▲ or DOWN ▼ buttons to** highlight the desired feature.
10. When highlighted, each feature can be turned **ON** or **OFF using the CURSOR RIGHT ▶ or LEFT ◀ buttons** on the remote.



NOTE: Remember, if you ever forget your Access Code, the 0,7,1,1 access code is the default code or a way to reset the code when the current access code is not known.

BLOCKING OPTIONS:

BLOCKING: This is what might be called the "master switch" for AutoLock™. When in the ON position, ALL blocking/censoring will take place. When in the OFF position, ALL blocking is disabled.

UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the BLOCKING feature is set to OFF.

NO RATING: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the BLOCKING feature is set to OFF.

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How to use the Closed Captioning Control

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

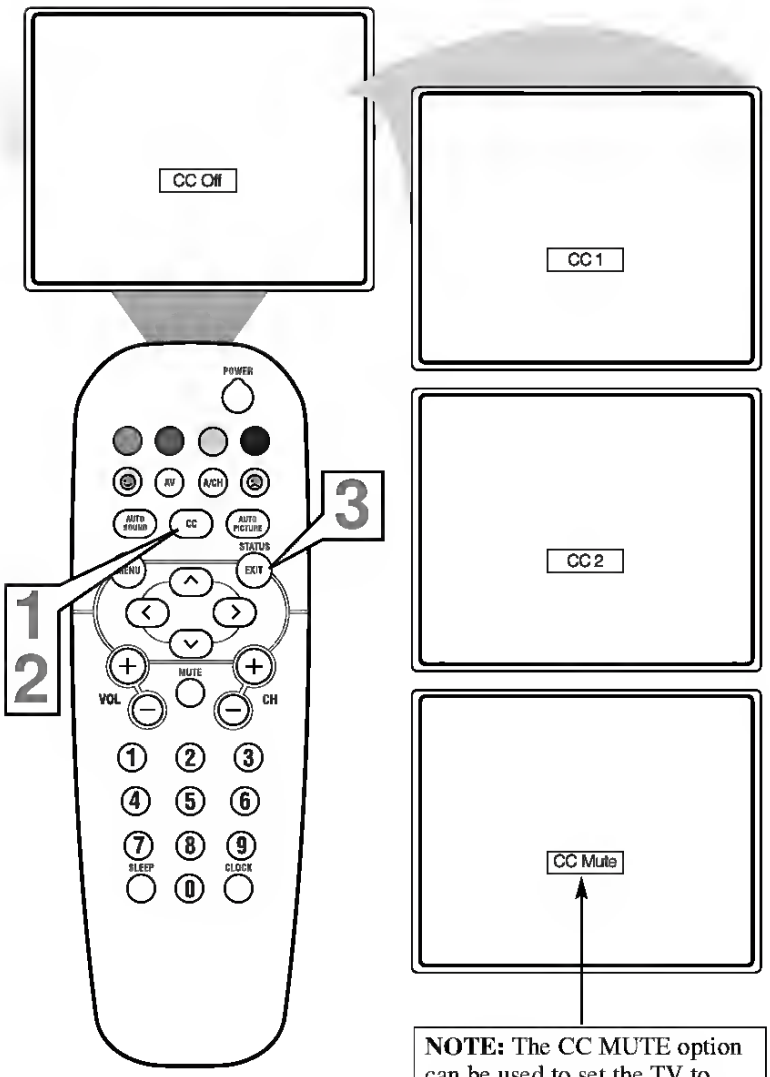
1 **Press the CC button** on the remote to display the current Closed Caption setting.

2 **Press the CC button repeatedly** to choose from the four Closed Caption options (CC Off, CC 1, CC 2, CC Mute). Dialogue (and descriptions) for the action on the captioned TV program will appear on-screen if the tuned program is broadcasting CC information.

3 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen or let the option time out and disappear from the TV screen.

Helpful Hint

Not all TV programs and product commercials are made with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC1, or CC2) necessarily being used during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



NOTE: The CC MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed. This activates the CC1 option.

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SETTING THE SLEEPTIMER CONTROL

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

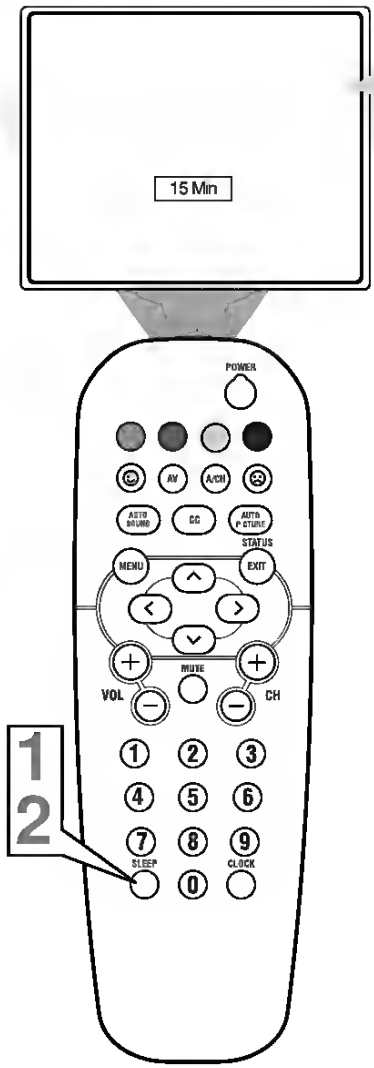
1 **Press the SLEEP button** on the remote control and the SLEEP timer display will appear on the screen.

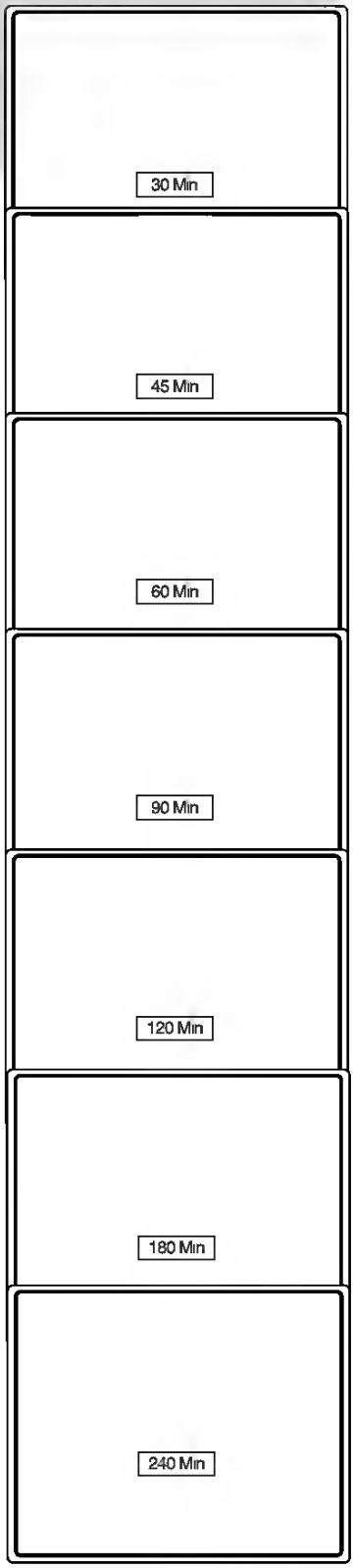
2 **Press the SLEEP button** repeatedly to pick the amount of time (15, 30, 45, 60, 90, 120, 180 or 240 minutes) before the TV will turn itself off.

An on-screen count down will appear during the last minute before the TV shuts itself off.

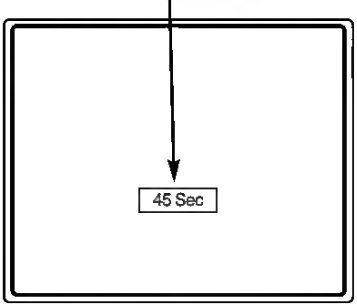
HELPFUL HINT

The on-screen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.

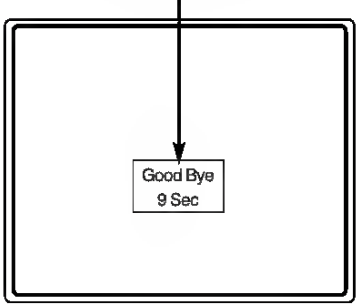




During the last minute of a Sleeptimer setting, an on-screen count down will be displayed. Pressing any button during the last minute will cancel the Sleeptimer.



During the last 10 seconds of a Sleeptimer setting, an on-screen display will read GOOD BYE.



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SETTING THE AUTOPICTURE™ CONTROL

Whether you're watching a movie or a sporting event, your TV has automatic video control settings matched for your current program source or content. The AutoPicture™ feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each AutoPicture™ setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, Color Temperature, DNR and Contrast+ levels.

1 **Press the AUTO PICTURE button** on the remote control. The current Auto Picture setting will appear in the middle of the screen.

2 **Press the AUTO PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTI MEDIA picture settings.

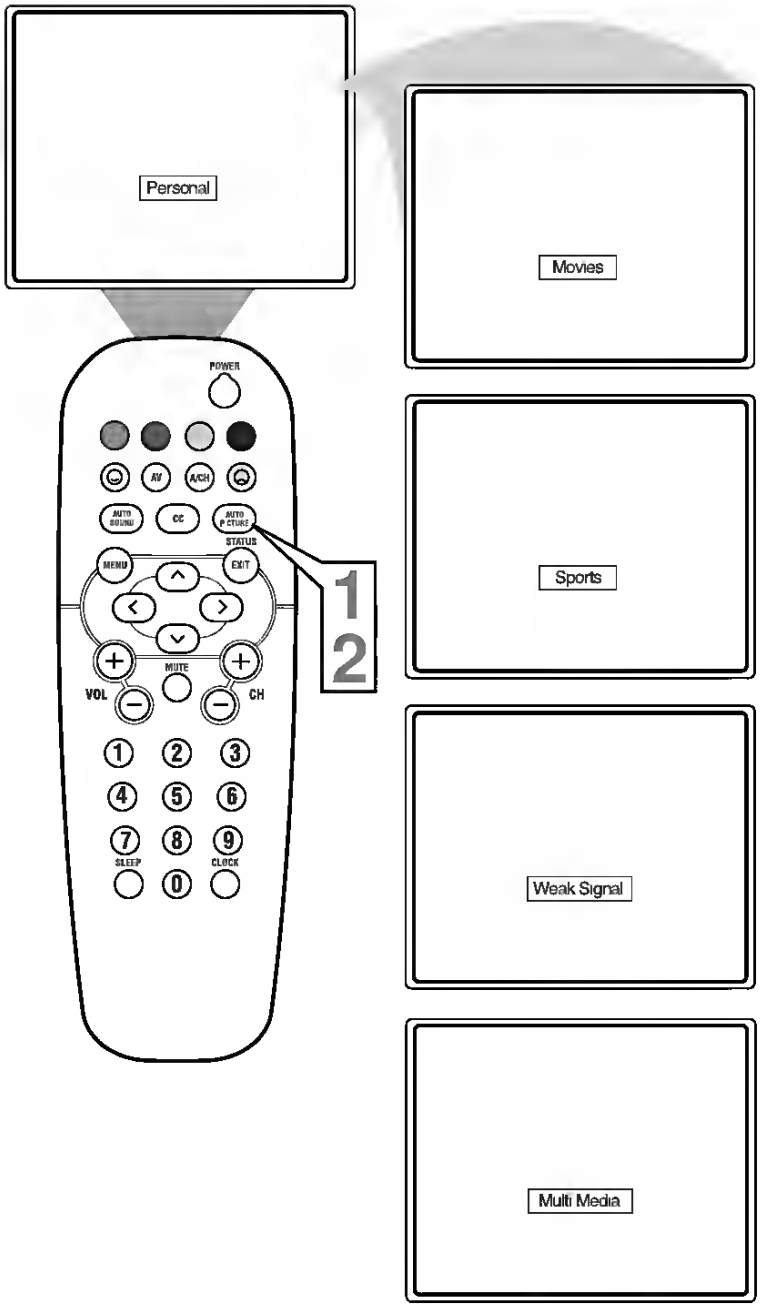
Note: The **PERSONAL** setting is the setting that you setup using the **PICTURE** options within the on-screen menu. This is the only Auto Picture setting that can be changed. All other settings are setup at the factory during the time of production.

MOVIES - Preset picture options for watching Video Tapes, or DVDs.

SPORTS - Preset picture options for watching sporting events.

WEAK SIGNAL - Preset picture options for watching programs where the reception is not at its best.

MULTI MEDIA - Preset picture options for use with video gaming.



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SETTING THE AUTOSOUND™ CONTROL

The AutoSound™ feature allows the listener to select between four different factory set sound options. Personal (which can be set by the user), Theatre (for movie viewing), Music (for musical type programming) and Voice (when the program is mainly dialogue). These setting affect the Sound menu's Bass, Treble, AVL, and Incredible Surround controls

To select any of the options follow the directions below.

1 **Press the AUTO SOUND button** on the remote control. The current Auto Sound setting will appear in the middle of the screen.

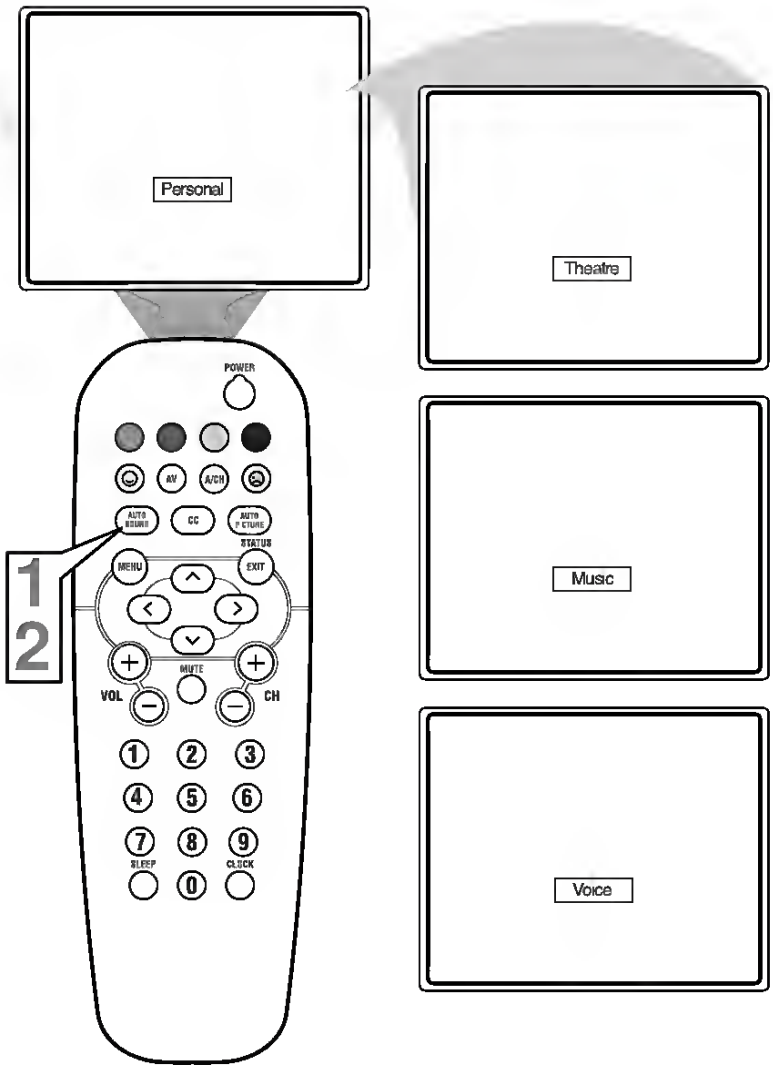
2 **Press the AUTO SOUND button repeatedly** to toggle between the four settings.

Note: Only the **PERSONAL** control can be changed by the viewer. This changes the settings in the main on-screen menu's sound controls.

THEATRE - Preset sound options for watching movies.

MUSIC - Preset sound options for musical programming where there is little dialogue.

VOICE - Preset sound options for programming where heavy dialogue is present.



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USING THE QUADRASURF™ BUTTONS

A "list" or series of previously viewed channels can be selected with the QuadraSurf™ (colored) buttons on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The QuadraSurf™ control allows you set up four different personal Surf lists using the colored buttons (on the remote control), each holding up to ten channels in its quick viewing "list."

1 **Press the CHANNEL (+) or (–) buttons** (or the NUMBER buttons) to select a channel to add to one of the SURF lists.

2 **Press the SMILEY ☺ button** on the remote control to ADD the channel to one of the SURF lists.

3 **Press the corresponding COLORED (Red, Green, Yellow or Blue) button** to add the channel to that button's Surf list. (Up to ten channels per button can be stored.)

Repeat steps 1 through 3 to add additional channels (up to 10) to each of the the SURF lists.

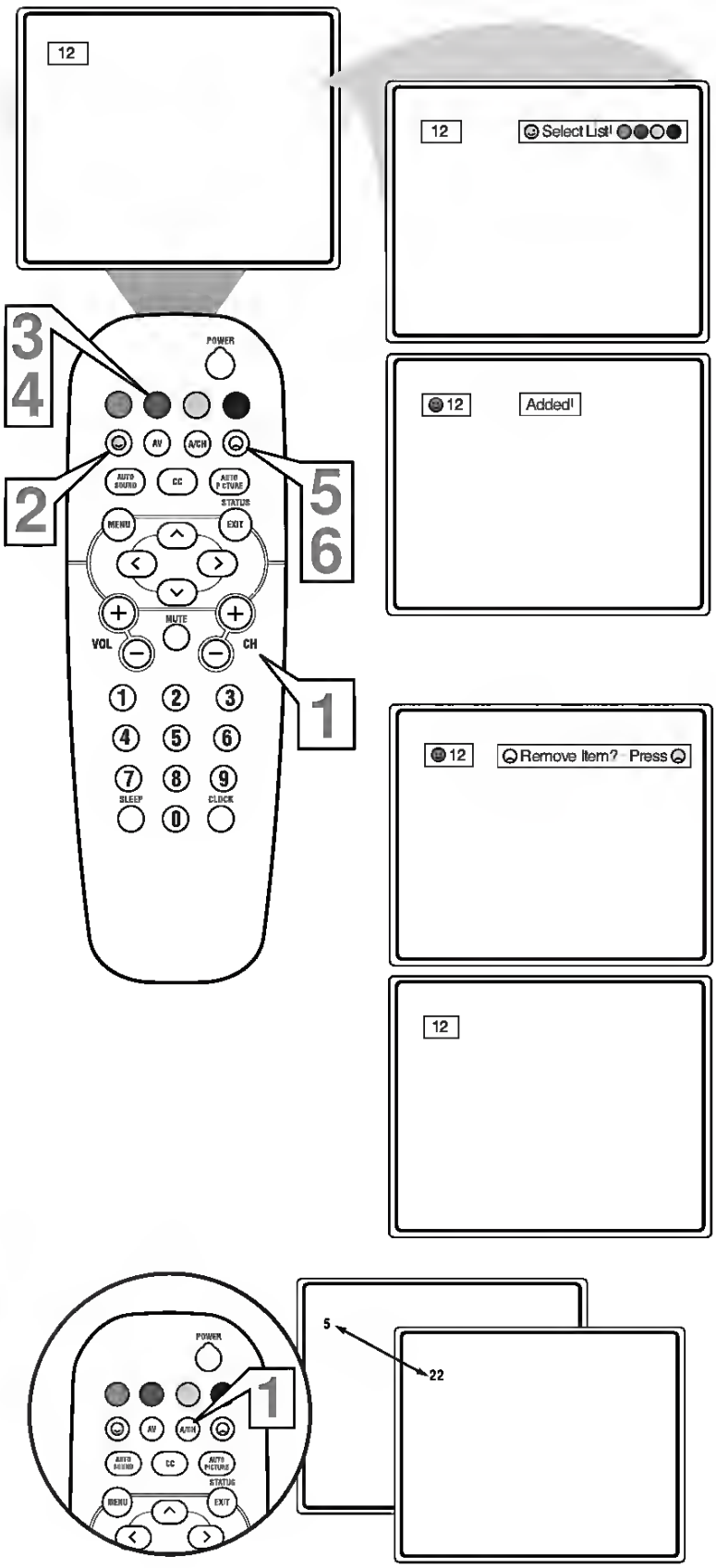
To remove a channel from one of the SURF lists;

4 **Press the COLORED QuadraSurf™ button** until the desired channel appears. The screen will display the channel number with a colored "Smiley" face to indicate the Colored button it relates to.

5 **While the "Smiley" face channel indicator is displayed, press the FROWNIE ☹ face button.** The screen will read, "Remove item? - Press ☹ ."

6 **Press the FROWNIE ☹ face button again** to confirm your decision to remove the channel from the Surf list.

Repeat steps 4-6 to remove other channels from Surf lists.



ALTERNATE CHANNEL

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and one previously selected channel.

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USING THE QUADRASURF™ BUTTONS

The QuadraSurf™ buttons on your remote control allow you to store up to 10 channels per button (40 total). This is a great feature if you want to store all your favorite Sports channels, Movie channels, or News channels in one surf list. Family members can have there own favorite list of channels. You can even program the external A/V Input jacks (Front channel) for one of the buttons making it a "source" button for your external accessory devices.

Assuming channels have now been added to the four QuadraSurf™ lists (the four colored buttons on the remote, see the previous page), let's review how the feature works.

1 **Press one of the pre-programmed COLORED buttons** on the remote (Red, Green, Yellow or Blue). The screen will display a smiley face with the first programmed channel for that surf list.

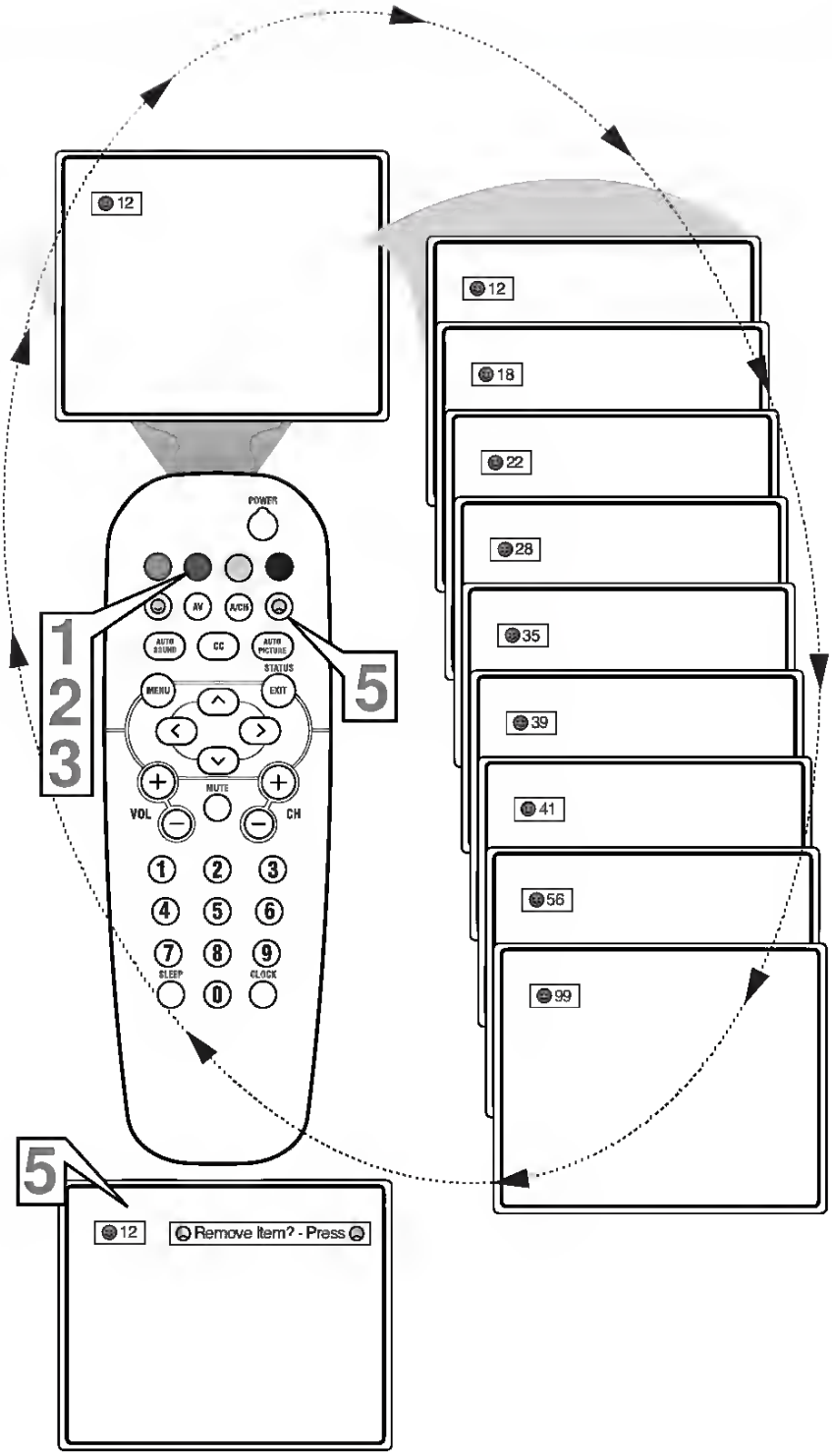
2 **While the colored "smiley" face still appears on the screen, press the same COLORED button** on the remote to tune the second channel programmed for that specific surf list.

3 **Repeatedly pressing the same COLORED button** while the "smiley" face appears will tune all the programmed channels for that specific surf list. After the last channel is tuned, pressing the COLORED button again will return you to the first channel in the list.

If the "smiley" face disappears from the screen and the same COLORED button is pressed, the surf channels will be displayed starting with the FIRST programmed channel again.

4 Repeat steps 1-3 for the other three COLORED buttons (Surf lists) if desired.

5 Any time the "smiley" face appears with the channel number, **pressing the "frownie" face button** will allow you to remove it from the list (see the previous page for more details).



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TROUBLESHOOTING

No Power
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Check that the outlet is not on a wall switch.
- Be sure the fuse is not blown on the AC power strip, if one is being used.

No Picture
- Check antenna connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected (FRONT or Current Channel).

No Sound
- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections located on the front of the TV.

Remote Does Not Work
- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.
- Clean the remote control and the remote control sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Be sure the fuse is not blown on the AC power strip, if one is being used.
- Check to be sure the TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13
- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

CARE AND CLEANING

WARNING Concerning Stationary Images on the TV Screen:

Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**

- **DVD menus**—listings of DVD disk content
- **Letterbox black bars**—shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- **Video-game images and scoreboards**
- **Television station logos**—present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers**—presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays**—bright and shown constantly or repeatedly in the same location on the TV screen.

PLACEMENT OF THE TV
- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

CLEANING
- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

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GLOSSARY OF TERMS

Auto Programming • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Coaxial Cable • A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Closed Caption • Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

Front Audio/Video Inputs • Located on the front or side of the TV these connectors (phono type plug) are used for the input of audio and video signals. Designed for easy use with VCRs or cameras.

On Screen Displays (OSD) • Refers to the wording or messages generated hy the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu • An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

Quadra Surf • The feature that allows the programming of four separate Surf lists holding up to 10 channels each.

Remote Sensor Window • A window or opening found on the Television control panel through which infrared remote control command signals are received.

Status/Exit • Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Surf • The action of scanning specific channel in a limited channel list.

Twin Lead Wire • The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

Tuner Mode • Feature control settings made by the TV. Designed for first time set up and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)

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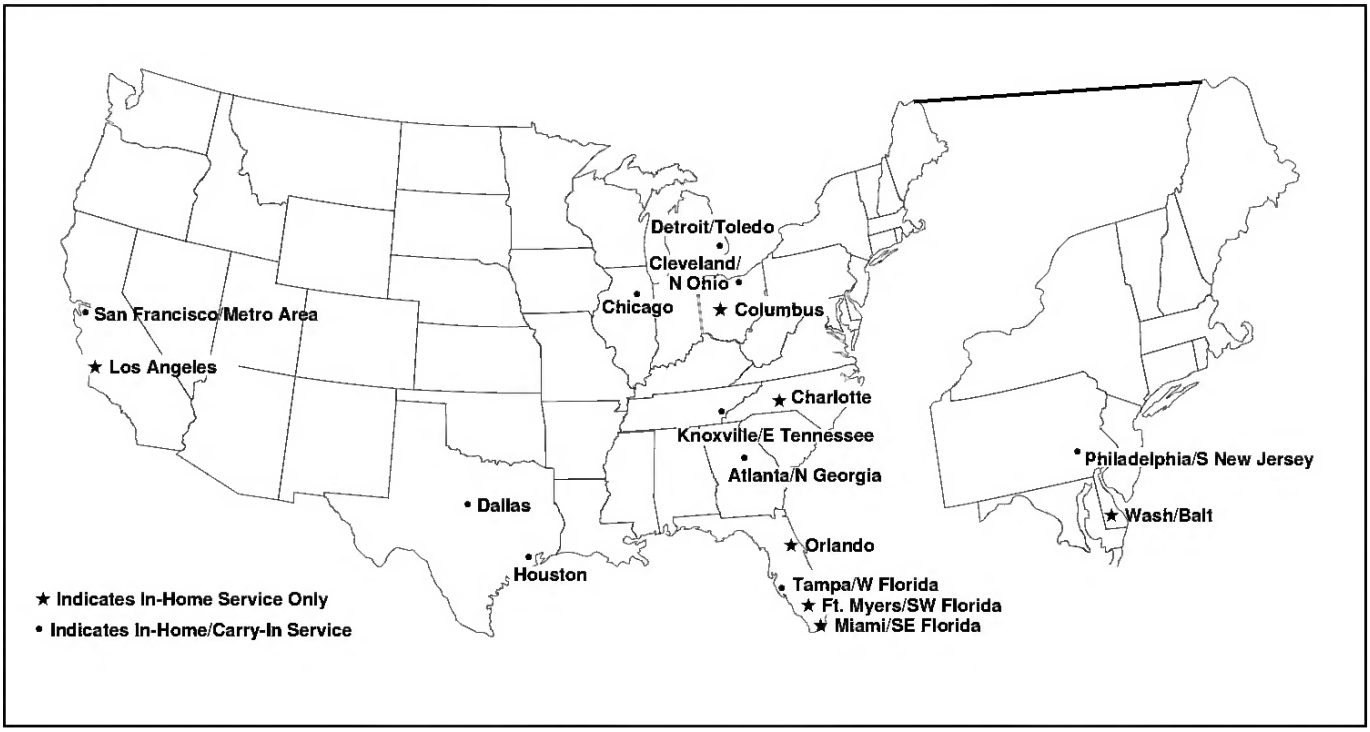
FACTORY SERVICE LOCATIONS



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d`achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at 1-800-661-6162 (French speaking)
1-800-363-7278 (English or Spanish speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
Favor de comunicarse con Philips al: 1-800-661-6162 (francófono)
1-800-363-7278 (anglófono)

MAC2929 Rev. DD - 1/1/2002

EL4482-3 Rev. DD
3135 015 07541

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Factory Service Locations

Quality service is as close as your telephone! Simply look over the list below for the number of a Factory Service Center near you. Your product will receive efficient and expedient carry-in, mail-in, or in-home service, and you will receive peace of mind,
knowing your product is being given the expert attention of Philips' Factory Service.

COMMENT DBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SDIT PAR CDURRIER, À DOMICILE, DU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CDNTACTER LE CENTRE DE SERVICE AUX CDNSOMMATEURS LE PLUS PRDCHE PDUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO DBTENER UN SERVICID DPDRTUND Y EFICIENTE POR CORRED, EN CASA D EN PERSONA PARA SU PRDDUCTO A TRAVÉS DE UN CENTRD PHILIPS DE SERVICID. MAS DE 600 SITIOS PDR TDDO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRD DE UN RADID DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

ATLANTA
Philips Factory Service
550 Franklin Road., Suite F
Marietta, GA 30067
800-273-1501

CLEVELAND
Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

CHICAGO
Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

TAMPA
Philips Factory Service
1911 US Highway 301 North
Tampa, FL 33619
800-442-2027

DETROIT
Philips Factory Service
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

KNOXVILLE
Philips Factory Service
6700 D Papermill Rd.
Knoxville, TN 37919
800-821-1767

SAN FRANCISCO
Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9013

DALLAS
Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

PHILADELPHIA
Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

HOUSTON
Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

MAC2929 1/1/2002

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FACTORY SERVICE LOCATIONS

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product must be carried in for service.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter*, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 if calling from Canada (French speaking)
1-800-894-5463 (English or Spanish speaking)
1-800-363-7278 (English or Spanish speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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